1971 AUTHORS INDEX

Asterisk indicates abstract

Abreau, C. M. See Vagenakis, A. G.
Ackerman, L. R. See Darter, E. L.
Adams, D. F.
See Holman, B. L.
See Kinoshita, M.
Adelstein, S. J.
See Holman, B. L.
See Kinoshita, M.
See Sandor, T.
Alagarsamy, V.
See Burdine, J. A.
See Carr, W. N.
Alazraki, N. P., Hagan, A., Ashburn, W. L. and Friedman, W. Left-to-right cardiac shunt detection, 334*
Alazraki, N. P., Halpern, S. E., Rosenberg, R. N. and Ashburn, W. L. Subdural hematoma visualization in cisternography, 758
Alazraki, N. P.
See Ashburn, W. L.
See Halpern, S. E.
Alexander, M. G. See Anderson, H. A.
Alexander, W. D. See Shimmons, J.
Alfrey, A., Terman, D. S., Hazle, A. J., Mahoney, J. F. and Brown, D. W. ^{47}Ca metabolism in dialyzed uremic patients, 334*
Alvarez, A. See Bell, R. L.
Alvi, Z. M. ^{252}Cf neutron activation of subcutaneous tissue, 335*
Amplatz, K. See Loken, M. K.
Amtey, S. R., Smith, E. M. and Smoak, W. M. Volume response concept for focused collimator, 409*
Anderson, H. A., Alexander, M. G. and Harris, C. C. "^{99m}Tc clock" for dose calculation, 742
Anderson, P. A. W. See Jones, R. H.
Anderson, R. E. See Waltz, A. G.
Andrews, G. A. See Nelson, B.
Andrews, H. L. See Weber, D. A.
Andros, G. ^{125}I and $^{99m}TcO_4^-$ in rat thyroid, 409*
Andros, G. and Robertson, J. W. K. Thyroid radioiodine kinetics using single tissue sample, 335*
Angelakis, P. See Papavasiliou, C.
Anger, H. O.
See Van Dyke, D.
See Verdon, T. A.
See Volpe, J. A.
See Yano, Y.
Anger, R. T.
See Branson, B. M.
See Wellman, H. N.
Antar, M. A., Hsia, Y. E. and Spencer, R. P. Liver and spleen function and blood flow in Wilson's disease, 410*
Antar, M. A. and Spencer, R. P. ^{113m}In dynamics of placental and uterine blood flow, 336*
Antar, M. A. and Spencer, R. P. Multiple nuclide evaluation of hepatic disease, 410*
Antar, M. A., Spencer, R. P., Freedman, G. S. and Pearson, H. A. Portal vein obstruction, 411*
Antar, M A. See Henisz, A.
Antia, F. P. See Desai, K. B.
Apfelbaum, R. I., Newman, S. and Gingesser, L. H. Dynamics of $^{99m}TcO_4^-$ for subdural hematoma scan, 336*
Ariel, I. M. and Padula, G. Irradiation of lymphomas and spleen in Hodgkin's disease, 412*
Arimizu, N., Kakehi, H. and Saegusa, K. Camera accessories for multiple layer scintigrams, 771
Armstrong, J. See Secker-Walker, R. H.
Aronson, R. S. Source of contaminants in ^{99m}Tc generators, 271
Arzoumanian, A. Y. See Usher, M. S.
Ascanio, I. See Haney, T. A.
Ashburn, W. L., Jones, G. R., Lee, J. M. and Alazraki, N. P. Interhospital data processing by central computer, 337*
Ashburn, W. L.
See Alazraki, N. P.
See Halpern, S. E.
Ashkar, F. S. Serum thyroxine index of thyroid response or suppression, 412*
Ashkar, F. S., Naya, G. L. and Smith, E. M. Parathyroid scanning, 751
Ashkar, F. S., Smith, E. M. and Gilson, A. J. Dynamic thyroid studies, clinical report, 337*
Askenasy, H. See Lubin, E.
Aspin, N. and Sass-Kortsak, A. Copper absorption in Wilson's disease, 412*
Aston, J. K. See Dalinka, M. K.
Athanassopoulos, C. See Harper, P. V.
Atkins, H. L., Eckelman, W. C., Hauser, W., Klopper, J. F. and Richards, P. GFR with ^{99m}Tc-DTPA, 338*
Atkins, H. L., Hauser, W. and Klopper, J. F. Carrier effect on ^{75}Se-selenomethionine distribution, 413*
Atkins, H. L., Hauser, W. and Richards, P. Adverse reactions to radiopharmaceuticals, 413*
Atkins, H. L.
See Eckelman, W. C.
See Hoyte, R. M.
See Lebowitz, E.
Avis, K. E. See Harper, A. G.
Bachynski, J. E. See Blick, A. J.
Baird, M. C. and Telfer, N. Measurement of intracellular pH, exchangeable Na and K, 413*
Band, D. See Pierno, C. A.
Banwell, J. H. See Sasaki, Y.
Baranosky, J. See Lebowitz, E.
Bardfeld, P., Brenner, S. M., Sugarman, L. and Parker, J. G. Detection of liver metastases from known primaries, 414*
Bardfeld, P. A. See Rudin, S.
Barker, S. L. and Gusmano, E. A. Iron hydroxide lung retention, 581
Barker, S. L., Gusmano, E. A., Smith, T. D., Murty, D. R. K. and Bruno, G. A. Retention of ^{113m}In-^{59}Fe-ferric hydroxide, 5
Barrett, I. R. and Mishkin, F. S. $^{99m}TcO_4^-$ angiogram in subdural hematoma, 414*
Barrett, I. R. See Dowell, J. W.
Barrow, P. A. See Overton, T. R.
Bassingthwaighte, J. B. See Yipintsoi, T.
Bauer, T. J., Brookeman, V. A. and DeLand, F. H. High-sensitivity collimator for the gamma camera, 414*
Bayer, P. L. Comparison of T_3 kits, 474*
Beauchet, J. See Dresch, C.
Beaver, J. E. and Hupf, H. B. Cyclotron production of ^{99m}Tc, 739
Beazell, J. See Iswara, T.
Beck, R. N. See Hoffer, P. B.
Beierwaltes, W. H.
See Blair, R. J.
See Boyd, C. M.
See Lieberman, L. M.
See Mizejewski, G.
See Nishiyama, H.
See Quinones, J. D.
Bekerman, C. and Gottschalk, A. Relative liver and spleen uptake of ^{99m}Tc-S colloid, 237
Bell, E. G., O'Mara, R. E., Henry, C. A., Subramanian, G., McAfee, J. G. and Brown, L. C. Non-neoplastic localization of ^{67}Ga-citrate, 338*
Bell, E. G., Sandler, M., O'Mara, R. E. and McAfee, J. G. ^{99m}Tc-Fe ascorbate complex in diffuse renal parenchymal disease, 339*
Bell, E. G.
See Duxbury, C. E.
See Henry, C. A.
See Subramanian, G.
Bell, R. L., Alvarez, A., Johnson, P. C. and Stevens, P. A. Mean pulmonary artery pressure, 415
Bell, R. L., Matthews, N., Ericsson, A. D., Meyer J. S. and Johnson, P. C. Comparison of ^{133}Xe and $^{99m}TcO_4^-$ for cerebral blood flow, 338*

Benjamin, P. P., Friedell, H. L. and Rejali, A. M. Synthesis of low-molecular-weight ^{99m}Tc-labeled compounds, 340*
Benjamin, P. P., Voelker, W. H. and Friedell, H. L. Semiautomatic production of ^{99m}Tc-albumin, 325
Benjamin, P. P. See Blue, J. W.
Bennett, B. See Weinstein, M. B.
Bennett, L. R.
See Bosnjakovic, V.
See Evens, R.
See Graham, L. S.
See Small, R. C.
See Wagner, M. S.
Benua, R. S., Laughlin, J. S., Lee, B. J. and Tilbury, R. S. ^{18}F bone scans in lymphoma evaluation, 340*
Bergeron, D. A. and Vogel, J. M. Moving line service for transmission imaging, 698
Bergstrom, T. J.
See Boyd, C. M.
See Lieberman, L. M.
Berke, R. See Bernstein, R. G.
Berke, R. A. and Saenger, E. L. Head-holding device for brain studies, 305
Berke, R. A. See Wellman, H. N.
Bernard, J. D. See McDonald, R. A.
Bernstein, J. See Hoffer, P. B.
Bernstein, R. G., Freeman, L. M., Berke, R. and James, A. E. False positive liver scans, 415*
Bichsel, H. See Budinger, T. F.
Bickert, C. See Wagner, M. S.
Bickhart, E. See Nola, V.
Biggin, H. C. and Morgan, W. D. Neutron activation analysis of whole-body C, N, O, 808
Blackwell, L. H. See Myers, J. H.
Blahd, W. H.
See Krishnamurthy, G. T.
See Weiss, E. R.
See Winston, M. A.
Blair, R. J., Beierwaltes, W. H., Lieberman, L. M., Boyd, C. M., Counsell, R. E., Weinhold, P. A. and Varma, V. M. Labeled cholesterol for adrenal scanning, 176
Blair, R. J.
See Rollo, F. D.
See Subramanian, G.
Blau, L. M. Comparison Pho/Gamma III, Pho/Gamma HP, Autofluoroscope, and scanner for high-energy gamma rays, 415*
Blau, L. M. Matrix inversion method for scanning thyroid phantom, 416*
Blau, M. See Ramanathan, P.
Bliek, A. J. and Bachynski, J. E. Severe reaction following lung scan, 90
Blue, J. W. and Benjamin, P. P. ^{77}Br production by ^{76}Se(α,3n) ^{77}Kr, 416*
Blue, J. W., Sodd, V. J. and Scholz, K. L. ^{123}I production from spallation reactions, 417*
Blue, J. W. See Sodd, V. J.
Blum, A. S. and Poppiti, R. J. Detailed kidney structure with pinhole camera, 418*
Blum, M. and Chandra, R. Dietary I in bread and ^{131}I thyroid uptake, 743
Blum, M. and Hernberg, J. G. Combined ultrasonic and isotope thyroid scanning, 418*
Blum, M. See Hernberg, J. G.
Boddy, K. Vitamin B_{12} metabolism, 275
Bogardus, C. See Flicken, V.
Bonte, F. J., Parkey, R. W., Lewis, S. E., Dowdey, J. E. and Graham, K. D. Scintillation cameras equipped with biakali photomultiplier tubes, 418*
Bonte, F. J.
See Dowdey, J. E.
See Kilgore, B. B.
Borkat, F. Mathematical operations in camera-computer systems, 340*
Borkat, F. Visual display for digital computer information, 341*
Borkat, F., Wiener, S. N. and Saidel, G. M. Normal myocardial perfusion, 419*
Bosnjakovic, V., Bennett, L. R., Vincent, W. and Larson, J. Dual-isotope method for intracardiac shunts, 341*
Bostrom, S. and Brown, D. W. Spheroidized albumin microspheres, 474*
Bowen, B. M. See Wood, D. E.
Boyar, R. M. See Russoto, J. A.
Boyd, C. M., Beierwaltes, W. H., Lieberman, L. M. and Bergstrom, T. J. ^{125}I-chloroquine analog in ocular melanoma, 601, 771
Boyd, C. M., Holcomb, G. N., Counsell, R. E., Beierwaltes, W. H. and Lieberman, L M. ^{125}I-iodopropamide distribution in the dog, 117
Boyd, C. M.
See Blair, R. J.
See Dalrymple, G. V.
See Lieberman, L. M.
See Quinones, J. D.
Branson, B. M. and Anger, R. T. Health physics in a nuclear medicine laboratory, 420*
Brar, S. S. See Kanabrocki, E. L.
Brashear, R. E. and Mishkin, F. S. Pulmonary vasoconstriction during histamine infusion, 420*
Brashear, R. E. See Mishkin, F. S.
Braunstein, P. and Hernberg, J. G. "Hot" renal pseudotumors, 421*
Braunstein, P., Hernberg, J. G. and Chandra, R. Practical compromise in bone scanning, 639
Braunstein, P.
See Chandra, R.
See Hernberg, J. G.
Braverman, L. E. See Vagenakis, A. G.
Brenner, N. M. See Brown, D. W.
Brenner, S. M. See Bardfeld, P.
Brill, A. B., Patton, J., Rolfes, R. and Johnston, R. E. Lithium-drifted germanium detector evaluation, 342*
Brill, A. B.
See Dyer, N. C.
See Flanigan, C. V.
See McFarland, J.
See Price, R.
Brody, K. R. and Spencer, R. P. ^{14}C-, ^{131}I- and dual-labeled iodoacetic acid, 421*
Brookeman, V. A. and Williams, C. M. Resin strip technique for T_3 and T_4 test
Brookeman, V. A.
See Bauer, T. J.
See DeLand, F. H.
See Spector, S. S.
Brown, D. H. See Hayes, R. L.
Brown, D. W., Kirch, D. L., Lofthouse, L. and Polhemus, C. E. Optical spatial filtering of scans, 342*
Brown, D. W., Kirch, D. L., Ryerson, T. W., Throckmorton, A. J., Kilbourn, A. L. and Brenner, N. M. Computer processing of scans, 287
Brown, D. W.
See Alfrey, A.
See Bostrom, S.
See Cykowski, C. B.
See Kirch, D. L.
See Stoub, E. W.
Brown, L. See Flanigan, C. V.
Brown, L. C. See Bell, E. G.
Brownell, G. L., Burnham, C. A., Pizer, S. M. and Wilensky, S. Multiterminal time-shared computer system, 421*
Brownell, G. L.
See Burnham, C. A.
See Hoop, B.
See Ojemann, R. G.
Bruno, F. P.
See DeLand, F. H.
See Morrison, L. M.
Bruno, G. A.
See Barker, S. L.
See Haney, T. A.
Brunsden, B. See Harper, P. V.
Buchanan, J. W., Rhodes, B. A. and Wagner, H. N. ^{113m}In albumin microspheres, 616
Budinger, T. F., Bichsel, H. and Tobias, C. A. Visual phenomena on human exposure to radiation, 342*
Burdine, J. A., Alagarsamy, V., Legeay, R., Carr, W. N. and Ryder, L. A. Automatic quantitation of ^{133}Xe regional lung function, 422*
Burdine, J. A., Calderon, M., Ryder, L. A., DePuey, E. G. and Sonnemaker, R. Evaluation of ^{99m}Tc-albumin microspheres for pulmonary perfusion imaging, 343*
Burdine, J. A., Ryder, L. A., Sonnemaker, R. E., DePuey, E. G. and Calderon, M. ^{99m}Tc-HSA microspheres for lung imaging, 127

Burdine, J. A.
See Carr, W. N.
See DePuey, E. G.
Burke, G., Halko, A. and Peskin, G. Cardiac output with the image-intensifier camera, 112
Burke, G., Halko, A., Silverstein, G. E. and Hilligoss, M. Thyroid uptake with ^{131}I and $^{99m}TcO_4^-$, 344*
Burke, G. See Halko, A.
Burnham, C. A. and Brownell, G. L. Positron camera for dynamic-function procedures, 344*
Burnham, C. A. See Brownell, G. L.
Burrows, B. A. Letter from the Editor, 531, 585, 773
Burrows, B. A.
See Cardarelli, J. A.
See Podolsky, S.
Burt, R. W. and Kuhl, D. E. Effect of exercise on pulmonary blood flow in mitral valve disease, 345*
Burt, W. and Halpern, S. E. ^{99m}Tc-S colloid macroaggregate preparation, 475*
Byrd, B. L.
See Edwards, C. L.
See Hayes, R. L.
Cain, M. L. See Marty, R.
Calderon, M. See Burdine, J. A.
Cantril, S. T. See McCormack, K. R.
Cardarelli, J. A., Podolsky, S. and Burrows, B. A. Neutron activation analysis of ^{127}I-insulin, 422*
Carlton, J. E. See Hayes, R. L.
Carr, H. A., Temple, T. E. and Staab, E. V. Thyroid cancer metastases with ^{99m}Tc, 40
Carr W. N., Burdine, J. A., Alagarsamy, V., Murphy, P. and Ryder, L. A. Comparison of image display formats, 423*
Carr, W. N. See Burdine, J. A.
Carter, C. C.
See Eichling, J. O.
See Welch, M. J.
Casarett, G. See Ciccio, S. S.
Cavendish, L. F. and Davis, M. A. ^{99m}Tc-Fe hydroxide macroaggregates, 475*
Chamberlain, M. J. and Fremlin, J. H. Whole-body neutron activation analysis in metabolic bone disease, 345*
Chandler, H. L. Fissure sign in lung perfusion scintigrams, 326
Chandra, R., Hernberg, J. G. and Braunstein, P. ^{131}I interference in $^{99m}TcO_4^-$ thyroid scan, 650
Chandra, R.
See Blum, M.
See Braunstein, P.
See Hernberg, J. G.
Charkes, N. D. Graves' disease with functioning nodules, 346*
Charkes, N. D. Optimal imaging time in ^{87m}Sr bone studies, 143
Charkes, N. D. See Kozar, J. J.
Charleston, D. B.
See Hoffer, P. B.
See Yasillo, N.
Charyulu, K. See Serafini, A. N.
Chaudhuri, Tapan K. Sequential ^{87m}Sr lung, liver and bone images, 423*
Chaudhuri, Tapan K., Chaudhuri, Tuhin K. and Christie, J. H. Successive ^{87m}Sr liver and bone scans, 424*
Chaudhuri, Tapan K., Chaudhuri, Tuhin K., Peterson, R. E. and Christie, J. H. Effect of phosphate on serum Sr or Ca, 346*
Chaudhuri, Tapan K. See Chaudhuri, Tuhin K.
Chaudhuri, Tuhin K. and Chaudhuri, Tapan K. ^{87m}Sr-phosphate-MAA lung imaging, 347*
Chaudhuri, Tuhin K. See Chaudhuri, Tapan K.
Chen, J. C. See Tjoe, S. J.
Cheng, H-F. and Peterson, R. E. Radioimmunoassay of thyrotropin, 424*
Chesler, D. A. 3-D activity distribution from positron scintigraphs, 347*
Chiba, K. See Iio, M.
Christie, J. H. See Chaudhuri, Tapan K.
Christman, D. R. See Hoyte, R. M.
Ciccio, S. S., Rubin, P., Casarett, G., Weber, D. A. and Thomson, R. A. E. Redistribution pattern of irradiated bone marrow, 425*
Clark, G. E. and Zimbler, F. B. Magnetic tape systems for Anger camera, 425*
Clarke, L. See Mayer, K.
Clegg, B. R. See Littlepage, J. L.
Cloutier, R. J., Watson, E. E., Hayes, R. L. and Nelson, B. Radiation dose from ^{72}Ga and ^{67}Ga, 348*
Coates, G. See Gilday, D. L.
Cohen, M. B. Amebic abscess of the liver, 192
Cohen, M-D. See Pizer, S. M.
Cohen, T. D. See Sanders, T. P.
Cohn, S. H. and Dombrowski, C. S. In vivo neutron activation analysis, 501
Committee on Education and Training. Components of professional competence of physicians in nuclear medicine, 840
Constantinides, C. See Papavasiliou, C.
Cook, D. J. and Lander, H. ^{113m}In inhalation lung imaging, 765
Cooke, M. B. D., Lopez-Majano, V. and Kaplan, E. Evaluation of whole-body camera, 426*
Cool, S. See Preston, D. F.
Cooper, M. See Hurley, P. J.
Cooper, P. H., Lerner, S. R. and Pircher, F. J. Scan measurements of a phantom, 426*
Cooper, P. H. See Pircher, F. J.
Cooper, R. E. M. See O'Reilly, R. J.
Coppler, E. See Nola, V.
Coppler, M., Kovaleski, B., Nelson, V. and Franco, J. Evaluation of free thyroxine index, 476*
Coppler, M.
See Franco, J.
See Kovaleski, B.
Cornelius, E. A. See Spencer, R. P.
Cottrall, M. F., Taylor, D. M. and Unnikrishnan, K. Absorbed-dose calculations, 841
Coulam, C. M. See Jones, R. H.
Counsell, R. E.
See Blair, R. J.
See Boyd, C. M.
Countryman, S. See Decker, L.
Cowan, R. J. Posterior liver scans, 576
Cowan, R. J. See Fagan, J. A.
Cradduck, T. D., MacIntyre, W. J., Todd-Pokropek, A. E. Contrast efficiency and FWHM, 321
Cragin, M. D., Webber, M. M. and Victery, W. K. Effect of Al in eluate on Tc-S particle size, 476*
Cragin, M. D.
See Reznick, L.
See Tetalman, M. R.
See Webber, M. M.
Crandell, D. C. and Friedman, B. I. Kidney position variation on scans, 579
Crews, M. C. and Quinn, J. L. ^{99m}Tc-HSA microspheres, 426*
Criley, J. M. See Isawa, T.
Curtis, C. See Meidinger, R.
Cykowski, C. B., Kirch, D. L., Polhemus, C. E. and Brown, D. W. Image enhancement by optical spatial filtering, 85
Dahl, J. R. See Tilbury, R. S.
Dakin, A. See Kanabrocki, E. L.
Dalinka, M. K., Fiveash, A. E. and Aston, J. K. Metastatic extraosseous osteosarcoma, 754
Dalrymple, G. V., Boyd, C. M., Moss, A. J. and Sanders, J. L. ^{67}Ga metabolism in cell cultures, 349*
Dalrymple, G. V. See Tyson, J. W.
Darter, E. L. and Ackerman, L. R. ^{99m}Tc-Fe hydroxide macroaggregates, 632
Daulatram, K. See Ramanathan, P.
Davis, D. O. See Eichling, J. O.
Davis, M. A. Iron retention in lungs from iron hydroxide, 349*
Davis, M. A. See Cavendish, L. F.
Dean, R. M. See Sear, R.
Deaver T. F. and Rollo, F. D. Depth correction method for thyroid uptakes, 427*
DeBlanc, H. J., DeLand, F. H. and Wagner, H. N. Radiometric screening for occult bacteria, 427*
DeBlanc, H. J., Natarajan, T. K., James, A. E. and Wagner, H. N. Cisternograms in occult hydrocephalus, 350*
DeBlanc, H. J.
See DeLand, F. H.
See Wagner, H. N.
Decker, L., Countryman, S. and Weber, D. A. Radiocontaminant evaluation of ^{18}F, 476*
DeLand, F. H. Cerebral blood flow, 428*

DeLand, F. H. and Brookeman, V. A. Diffusion rates of intrathecal radiopharmaceuticals, 350*
DeLand, F. H. and Bruno, F. P. Biologic behavior of ^{169}Yb-DTPA, 428*
DeLand, F. H., DeBlanc, H. J. and Wagner, H. N. Methods for detection of bacteremia, 351*
DeLand, F. H., James, A. E., Wagner, H. N. and Hosain, F. ^{169}Yb-DTPA cisternography, 683
DeLand, F. H.
See Bauer, T. J.
See DeBlanc, H. J.
See Moreno, J. B.
See Rollo, F. D.
DeLellis, R. See Schall, G. L.
DeNardo, G. L. See Jacobson, S. J.
DePuey, E. G., Burdine, J. A. and Murphy, P. Bone-mineral content using the scintillation camera, 351*
DePuey, E. G. See Burdine, J. A.
Desai, K. B., Ganatra, R. D., Sharma, S. M., Patel, M. C. and Antia, F. P. ^{131}I thyroid uptake in infectious hepatitis, 828
Desai, K. B. See Ganatra, R. D.
Deveau, L. See Pizer, S. M.
Diaz, N. J. See Spector, S. S.
Dibos, P. E., Muhletaler, C. A., Ottesen, O. E. and Wagner, H. N. Radionuclide peripheral anteriography, 429*
DiChiro, G. See Larson, S. M.
Dizon, M. See Gize, R.
Dobson, E. L. See Van Dyke, D.
Dombrowski, C. S. See Cohn, S. H.
Domingo, M. See Kaplan, E.
Dore, E. K. See Gates, G. F.
dos Remedios, L. V., Weber, P. M. and Jasko, I. A. Thyroid imaging with $^{99m}TcO_4^-$ and ^{131}I, 673
dos Remedios, L. V. See Khentigan, A.
Dowdey, J. E., Graham, K. D. and Bonte, F. J. Collimator magnification of camera images, 352*
Dowdey, J. E. See Bonte, F. J.
Dowell, J. W., Barrett, I. R., Reese, I. C. and Mishkin, F. S. ^{99m}Tc-$Fe(OH)_3$ particles, 477*
Downham, M C. and Evens, R. G. Economics of scintillation camera use, 352*
Dresch, C., Najean, Y. and Beauchet, J. ^{51}C- and ^{32}P-DFP-labeled granulocytes, 774
Drescher, W. P. See Inkley, S. R.
Dresser, M. M. and Knoll, G. F. Detection parameter effect on scattered gamma-ray degradation of images, 352*
Duffy, P. See Weinstein, M. B.
Dugan, M. A. See Ice, R. D.
Dugdale, M. and Friedman, B. I. ^{99m}Tc-S colloid effect on human platelets, 429*
Dujovny, M. See Lubin, E.
Dunn, C. J. and Virden, H. H. ^{133}Xe ventilator, 477*
Dunning, W. See Serafini, A. N.
Dunson, G. L. See Jones, A. E.
Duxbury, C. E., Bell, E. G., Evers, W. and McAfee, J. G. Mannitol infusion and RBC survival, 478*
Dworkin, H. J. and Gutkowski, R. F. Closed-system ^{99m}Tc-albumin production, 562
Dworkin, H. J. and LaBan, M. Correlation of EMG and bone scan for spinal metastases, 430*
Dworkin, H. J. and Meigan, J. W. ^{131}I in $^{99m}TcO_4^-$ thyroid scans, 651
Dworkin, H. J. See Gutkowski, P.
Dyer, N. C., Brill, A. B. and Goss, D. A. Iron metabolism in pregnant women, 353*
Dyer, N. C., Brill, A. B., Gutberlat, R., Raye, J., Faxelius, G. Swanstrom, S. and Stahlman, M. Intracranial bleeding in newborn infants, 353*
Dyer, N. C. See Flanigan, C. V.
Eastland, D. K. See Pircher, F. J.
Eckelman, W. C., Meinken, G. and Richards, P. ^{99m}Tc chemical state in biomedical products, 596
Eckelman, W. C., Meinken, G. and Richards, P. ^{99m}Tc-human serum albumin, 707
Eckelman, W. C. and Richards, P. Instant ^{99m}Tc-labeled compounds, 430*
Eckelman, W. C. and Richards, P. ^{99m}Tc-labeled compounds, 354*
Eckelman, W. C., Richards, P., Atkins, H. L., Hauser, W. and Klopper, J. F. ^{99m}Tc-RBC spleen imaging, 310, 354*
Eckelman, W. C., Richards, P., Hauser, W. and Atkins, H. L. ^{99m}Tc-DTPA preparations, 699
Eckelman, W., Richards, P., Hauser, W. and Atkins, H. ^{99m}Tc-red blood cells, 22, 577
Eckelman, W. C. See Atkins, H. L.
Eckstein, R. W. See Ishii, Y.
Edgar, W. H. See Wilcox, F. W.
Edwards, C. L. and Hayes, R. L. ^{67}Ga for scanning and staging tumors, 355*
Edwards, C. L., Hayes, R. L., Ominsky, S., Byrd, B. L. and Rafter, J. J. ^{67}Ga visualization of abdominal lymph nodes, 431*
Edwards, C. L. See Nelson, B.
Eichling, J. O., Carter, C. C., Davis, D. O. and Ter-Pogossian, M. M. Partitian coefficients in rCBF washout, 431*
Eldh, P. See Holman, B. L.
Endo, J. See Halpern, S. E.
Endow, J. S. See Winston, M. A.
Enenstein, J. See Halko, A.
Enot, K. J. See Handel, S. F.
Enright, L. P. See Kriss, J. P.
Eriesson, A. D. See Bell, R. L.
Evans, R. See Shiu, M. H.
Evdokimoff, V. and Wagner, H. N. Hepatic phagocytosis in heavy metal toxicity, 431*
Evens, R. G., Gottschalk, A., Maynard, C. D., Saunders, T. P. and Bennett, L. R. Nuclear medicine training in medical schools, 574
Evens, R G.
See Downham, M. C.
See Milder, M. S.
Evers, W. See Duxbury, C. E.
Fagan, J. A. and Cowan, R. J. $KClO_4$ effect on $^{99m}TcO_4^-$ uptake in choroid plexus, 312
Farmelant, M. H. Book report: Use and interpretation of the lung scan, 838
Farmelant, M. H. and Trainor, J. C. ^{133}Xe ventilation technique, 586
Farr, L. E. See Konikowski, T.
Fawwaz, R. A., Hemphill, W. and Winchell, H. S. ^{109}Pd-porphyrin complexes, 231
Fawwaz, R. A. See Pollycove, M.
Faxelius, G. See Dyer, N. C.
Fayen, W. J. KI block of choroid plexus in $^{99m}TcO_4^-$ brain scans, 98
Fichman, M. P. and Telfer, N. Evaluation of hyponatremia with isotope dilution studies, 432*
Fillet, G. Liquid scintillation counting of plasma ^{59}Fe, 270
Fine, J. See Lorber, S. A.
Fischer, D. S. See Spencer, R. P.
Fischer, J. See Mundschenk, H.
Fiveash, A. E. See Dalinka, M. K.
Flanigan, C. V., Holscher, M. A., Dyer, N. C., Brown, L. and Brill, A. B. Tumor localization of five radiopharmaceuticals, 355*
Flicken, V., Smith, S., Halpern, S., Miller, L. and Bogardus, C. ^{99m}Tc-S-colloid for lung studies, 432*
Fore, D. L. See Morita, E. T.
Fortman, D. L. See Robbins, P. J.
Fortner, J. G. See Shiu, M. H.
Fox, J. See Sauerbrunn, B. J. L.
Franco, J., Coppler, M. and Kovaleski, B. Radioimmunoassay for thyroid antimicrosomal antibodies, 356*
Franco, J., Coppler, M., Kovaleski, B. and Nelson, V. Propanolol and ^{131}I in hyperthyroidism, 433*
Franco, J., Coppler, M., Kovaleski, B., Nelson, V., Macias, J. and Sherry, J. Multiphasic jaundice workup, 356*
Franco, J.
See Coppler, M.
See Kovaleski, B.
See Nola, V.
Frech, R. See Loken, M. K.
Freedman, G. S. Gamma camera tomography, 433*
Freedman, G. S.
See Antar, M. A.
See Henisz, A.
See Keaney, J.
Freeman, L. M.
See Bernstein, R. G.
See Mehnert, P. J.
Fremlin, J. H. See Chamberlain, M. J.
Friedell, H. L. See Benjamin, P. P.
Friedman, B. I.
See Crandell, D. C.
See Dugdale, M.
See Harper, A. G.

Friedman, W. See Alazraki, N. P.
Galasko, C. S. B. Optimal imaging time for ^{87m}Sr bone studies, 142
Gallamore, G. D. Technique for subdiaphragmatic abscess, 144
Ganatra, R. D., Mehan, K. P., Desai, K. B. and Sundaram, K. Vitamin B_{12} absorption, 357*
Ganatra, R. D.
See Desai, K. B.
See Ramanathan, P.
Gaspar, P. P. See Welch, M. J.
Gates, G. F. and Dore, E. K. Mesenteric vein injection of ^{198}Au-colloid, 357*
Gates, G. F. and Dore, E. K. Primary congenital lymphedema in infancy, 315
Gates, G. F., Orme, H. W. and Dore, E. K. Cardiac shunting measurements with ^{99m}Tc-HSA aggregate, 746
Gergans, G. See Quinn, J. L.
Ghaed, N. See Jones, A. E.
Gigliotti, J. A. See Haney, T. A.
Gilday, D. L., Coates, G. and Goldenberg, D. Scanning and angiography in subdural hematoma, 358*
Gillespie, F. C. See Wyper, D. J.
Gilson, A. J. See Ashkar, F. S.
Gize, R., Dizon, M. and Mishkin, F. S. Analysis of the fissure sign, 434*, 822
Glenn, H. J.
See Haynie, T. P.
See Konikowski, T.
Glenn, W. L. See Henisz, A.
Glomski, C. A., Pillay, S. K. K. and Hagle, R. E. ^{50}Cr-RBC survival by neutron activation analysis, 31
Gloria, I. V. See Lathrop, K. A.
Gnau, T. R., Maynard, C. D. and Watts, F. C. Community radiopharmacy, 358*
Goel, Y., Sims, J. and Pittman, J. A. ^{75}Se-selenomethionine mediastinum scanning, 644
Golden, M. See Halpern, S. E.
Goldenberg, D. See Gilday, D. L.
Gonick, H. C. See Wagner, M. S.
Goodrich, J. K.
See Jones, R. H.
See Wilkinson, R. H.
Goodwin, D. A. Iron hydroxide lung retention, 580
Goodwin, D. A., Imbornone, C. J. and Song, C. H. Distribution of ^{111}In- and ^{67}Ga-labeled compounds, 434*
Goodwin, D. A.
See Matin, P.
See Moody, D.
Gordon, E. S. See Tyson, I.
Gorten, R. J. and Krackow, K. A. Objective scan interpretation, 434*
Gorten, R. J.
See Kirsch, K. A.
See Wells, C. L.
Goss, D. A. See Dyer, N. C.
Goswitz, F., Nelson, B., Vodopick, H. and Lushbaugh, C. Effect of low-dose rate irradiation on human marrow, 359*
Gottlieb, N. L., Smith, P. and Smith, E. M. Gold excretion in arthritics on chrysotherapy, 359*
Gottschalk, A.
See Bekerman, C.
See Evens, R.
See Hoffer, P. B.
See Pinsky, S. M.
See Tetalman, M. R.
See Yasillo, N.
Graf, M. See Urbanek, J.
Graham, K. D.
See Bonte, F. J.
See Dowdey, J. E.
Graham, L. A., Veatch, R. L. and Kaplan, E. ^{75}Se-selenomethionine distribution, 566
Graham, L. S. and Bennett, L. R. Study of cortisol metabolism, 435*
Green, F. A. See Hays, M. T.
Greene, M. W.
See Lebowitz, E.
See Subramanian, G.
Greene, R., Hoop, B. and Kazemi, H. ^{13}N for ventilation studies, 719
Gusmano, E. A.
See Barker, S. L.
See Haney, T. A.
Gustafson, D. C. See Yipintsoi, T.
Gutberlat, R. See Dyer, N. C.
Gutkowski, R. F. and Dworkin, H. J. Radiochromatographic purity check, 513
Gutkowski, R. F. and Dworkin, H. J. ^{99m}Tc-albumin by closed-system electrolysis, 360*
Gutkowski, R. F. See Dworkin, H. J.
Hagan, A. See Alazraki, N. P.
Hagle, R. E. See Glomski, C. A.
Halko, A., Burke, G., Sorkin, A. and Enenstein, J. Computer analysis of camera renogram, 360*
Halko, A. See Burke, G.
Halpern, S. See Flicken, V.
Halpern, S. E., Alazraki, N. P. and Ashburn, W. L. Cisternography in cerebrovascular occlusion, 435*
Halpern, S. E., Tubis, M., Golden, M., Endo, J. and Walsh, C. ^{99m}Tc-penicillamide acetazolamide complex for kidney scanning, 361*
Halpern, S. E.
See Alazraki, N. P.
See Burt, W.
See Winston, M. A.
Hamamoto, K. See Torizuka, K.
Hamburger, J. I. See Meier, D. A.
Hamlin, G. See Pizer, S. M.
Handa, J. See Torizuka, K.
Handel, S. F., Powell, M. R., Wilson, C. B. and Enot, K. J. Brain neoplasm response to systemic chemotherapy, 292
Haney, T. A., Ascanio, I., Gigliotti, J. A., Gusmano, E. A. and Bruno, G. A. ^{99m}Tc-S colloid containing Na_2 EDTA, 64
Hansell, J. R. See Hauser, W.
Hara, T., Taylor, C., Lembares, N., Lathrop, K. A. and Harper, P. V. L-aspartic acid-4-^{11}C for tumor scanning, 361*
Harper, A. G., Avis, K. E., Wennemark, J. R. and Friedman, B. I. ClO_4^- blocking of $^{99m}TcO_4^-$, 362*
Harper, P. V., Kawana, M., Athanassopoulos, C., Krizek, H., Lembares, N., Brundsen, B. and Resnekov, L. Imaging requirements for myocardial infarctions, 436*
Harper, P. V., Lembares, N. and Krizek, H. ^{18}F production with deuterons on ^{20}Ne, 362*
Harper, P. V.
See Hara, T.
See Lathrop, K. A.
See Pinsky, S. M.
Harris, C. C. See Anderson, H. A.
Harris, S. J. See Pizer, S. M.
Hart, H. See Rudin, S.
Hartenbower, D. L. See Weiss, E. R.
Hartman, C. R. and Morita, E. T. Autonomous functioning multinodular goiters, 436*
Hauser, W., Herrera, N., Hansell, J. R. and Hutchens, T. T. Quality evaluation program for nuclear medicine, 363*
Hauser, W.
See Atkins, H. L.
See Eckelman, W. C.
See Hoyte, R. M.
See Lebowitz, E.
Hawes, D. and Mishkin, F. S. Radionuclide patterns in cerebrovascular disease, 363*
Hayden, W. G. See Kriss, J. P.
Hayes, M. Imaging studies with a large crystal scintillation camera, 93
Hayes, M. and Taplin, G. V. ^{131}I-Hippuran and ^{99m}Tc-DTPA for renal transplant monitoring, 437*
Hayes, M.
See Isawa, T.
See Kitani, K.
Hayes, R. L., Byrd, B. L., Carlton, J. E. and Rafter, J. J. Scandium effect on ^{67}Ga distribution, 437*
Hayes, R L., Nelson, B., Swartzendruber, D. H., Brown, D. H., Carlton, J. E. and Byrd, B. L. Intracellular deposition of ^{67}Ga, 364*
Hayes, R. L.
See Cloutier, R. J.
See Edwards, C. L.
See Nelson, B.
Haynie, T. P., Konikowski, T., Glenn, H. J. and Jahns, M. F. ^{99m}Tc-, ^{113m}In- and ^{169}Yb-DTPA in sarcoma, 364*
Haynie, T. P.
See Jhingran, S. G.
See Konikowski, T.
Hays, M. T. and Green, F. A. $^{99m}TcO_4^-$ binding by human serum and tissue, 365*
Hazle, A. J. See Alfrey, A.
Heck, L. L. See Tetalman, M. R.
Hellems, H. K. See Smith, R. O.
Hemphill, W. See Fawwaz, R. A.
Henisz, A., Mitchell, L. A. and Spencer, R. P. Incorporation of ^{14}C-fatty acid by leukemia-lymphoma cells, 438*

Henisz, A., Spencer, R. P., Glenn, W. L. and Talner, N. S. Streaming effect in pulmonary blood flow, 438*

Henisz, A., Spencer, R. P., Touloukian, R. J., Freedman, G. S. and Antar, M. A. Kinetic studies of ^{75}Se-selenomethionine, 365*

Henry, C. A., Bell, E. G. and O'Mara, R. E. Camera energy-level selection, 478*

Henry, C. A.
See Bell, E. G.
See Subramanian, G.

Hernandez, T. Pinhole collimator versatility, 479*

Hernberg, J. G. and Braunstein, P. Cardiac scintiscan vs. echocardiography, 438*

Hernberg, J. G., Braunstein, P., Chandra, R. and Blum, M. Artifacts in ^{99m}Tc-S colloid liver scans, 697

Hernberg, J. G.
See Blum, M.
See Braunstein, P.
See Chandra, R.

Herrera, N. See Hauser, W.

Hertsgaard, D. B. See Patton, D. D.

Heslip, P. G. See Overton, T. R.

Hidalgo, J. U. Absorbed-dose calculation, 842

Hilligoss, M. See Burke, G.

Hine, G. L. Book report: Nuklearmedizin, Szintigraphische Diagnostik, 839

Hine, G. J. and Tsialas, S. P. Contrast efficiency and FWHM, 322

Hiramoto, T., Tanaka, E. and Nohara, N. Camera based on delay-line time conversion, 160

Hiramoto, T. See Nohara, N.

Hoffer, P. B., Beck, R. N., Lembares, N., Charleston, D. B. and Gottschalk, A. Lithium-drifted germanium detectors, 25

Hoffer, P. B., Bernstein, J., Beck, R. N. and Gottschalk, A. Flourescent thyroid scanning, 366*

Hoffer, P. B.
See Oppenheim, B. E.
See Pinsky, S. M.
See Tetalman, M. R.
See Yasillo, N.

Holcomb, G. N. See Boyd, C. M.

Hollenberg, N. K. See Kinoshita, M.

Holman, B. L., Poggenburg, J. K., Adams, D. F., Eldh, P. and Adelstein, S. J. Myocardial perfusion and viability with ^{43}K, 366*

Holman, B. L. See Kinoshita, M.

Holmes, R. A. and Walker, A. G. Comparison of brain scan and arteriogram, 439*

Holmes, R. A. See Walker, A. G.

Holscher, M. A. See Flanigan, C. V.

Hoop, B., Ojemann, R. G. and Brownell, G. L. Stochastic model of regional cerebral circulation, 540

Hoop, B.
See Greene, R.
See Ojemann, R. G.

Hopkins, J. D. and Staab, E. V. ^{131}I-Hippuran evaluation in acute renal failure, 439*

Hosain, F., Syed, I. B., Som, P., Sasaki, Y. and Wagner, H. N. Mechanism of uptake of radioactive substances by bone, 367*

Hosain, F.
See DeLand, F. H.
See Jones, A. E.
See Som, P.
See Syed, I. B.

Houser, T. S. See MacIntyre, W. J.

Hoyte, R. M., Lin, S. S., Atkins, H. L., Christman, D. R., Hauser, W., Klopper, J. F. and Wolf, A. P. ^{18}F-6-fluorotryptophan organ distribution, 367*

Hoyte, R. M., Lin, S. S., Christman, D. R., Atkins, H. L., Hauser, W. and Wolf, A. P. ^{18}F-labeled phenylalanines, 280

Hromee, A. See Mundschenk, H.

Hsia, Y. E. See Antar, M. A.

Huemer, R. P. See Wagner, M. S.

Hunter, W. W., and Monahan, W. G. ^{13}N-ammonia, physiologic radiotracer, 368*

Hupf, H. B. See Beaver, J. E.

Hurley, P. J., Cooper, M., Reba, R., Poggenburg, K. J. and Wagner, H. N. ^{43}KCl for heart imaging, 516

Hurley, P. J. and Wagner, H. N. Brain scanning in children, 368*

Hurley, P. J., Zaret, B. L., Pitt, B. and Wagner, H. N. Left ventricular wall movement in aneurysm, 369*

Hurley, P. J.
See Maisey, M. N.
See Wesselhoeft, H.

Hušák, V. Exposure rate at syringe surface, 574

Hutchens, T. T. See Hauser, W.

Ice, R. D. and Dugan, M. A. Quench analysis of beta radiopharmaceuticals, 552

Iio, M. ^{131}I-BSP clearance in Dubin-Johnson syndrome, 768

Iio, M., Iuchi, M., Kitani, K., Yameda, H., Ishiwa, M., Kameda, H. and Chiba, K. Liver evaluation in schistosomiasis japonica, 655

Iio, M., Yamada, H., Kameda, H., Ueda, H., Iuchi, M. and Ishiwa, M. ^{131}I-BSP scanning in hyperbilirubinemia, 95

Imbornone, C. J. See Goodwin, D. A.

Inkley, S. R., MacIntyre, W. J. and Drescher, W. P. ^{133}Xe studies of the lung, 369*

Inkley, S. R. See MacIntyre, W. J.

Isawa, T., Criley, J. M., Taplin, G. V., and Beazell, J. Regional ventilation in pulmonary artery occlusion, 370*

Isawa, T., Hayes, M. and Taplin, G. V. Aerosol inhalation lung scanning, 606

Isawa, T., Hayes, M. and Taplin, G. V. ^{113m}In-albumin aerosol preparation, 138

Isawa, T. and Taplin, G. V. ^{133}Xe gas vs. radioaerosol for perfusion scan, 440*

Ishii, Y. and MacIntyre, W. J. Analytical approval to radiocardiogram recording, 792

Ishii, Y., MacIntyre, W. J., Eckstein, R. W. and Pritchard, W. H. ^{43}K for total myocardial flow, 440*

Ishii, Y. See MacIntyre, W. J.

Ishiwa, M. See Iio, M.

Israeli, J. See Lubin, E.

Iuchi, M. See Iio, M.

Jacobson, S. J. and DeNardo, G. L. Spleen scan of splenosis, 570

Jaffe, H. L. See Kagan, A. R.

Jahns, M. F.
See Haynie, T. P.
See Jhingran, S. G.

James, A. E.
See Bernstein, R. G.
See DeBlanc, H. J.
See DeLand, F. H.
See Kirchner, P. T.

Janney, C. D. See Kupic, E. A.

Jasko, I. A. See dos Remedios, L. V.

Jelinek, J. See Overton, T. R.

Jhingran, S. G., Jordan, L., Jahns, M. F. and Haynie, T. P. Liver scans in metastatic carcinoma detection, 227

Joensuu, O. I. See Weinstein, M. B.

Johnson, D. E. See Kitani, K.

Johnson, P. C. See Bell, R. L.

Johnson, R. F. See Kirsch, K. A.

Johnston, R. E.
See Brill, A. B.
See Price, R.

Jones, A. E., Ghaed, N., Dunson, G. L. and Hosain, F. Bone scanning with oral ^{18}F, 441*

Jones, G. R. See Ashburn, W. L.

Jones, R. H., Anderson, P. A. W., Goodrich, J. K. and Sabiston, D. C. Left-to-right intracardiac shunts, 370*

Jones, R. H., Klaphaak, R. B., Coulam, C. M., Goodrich, J. K. and Sabiston, D. C. Anatomic resolution in dynamic studies, 371*

Jordan, L. See Jhingran, S. G.

Kagan, A. R., Jaffe, H. L. and Kennamer, R. Radiation therapy of liver hemangioma, 835

Kakegawa, M. See Nohara, N.

Kakehi, H. See Arimizu, N.

Kameda, H. See Iio, M.

Kamenetsky, S. See McCormack, K. R.

Kaminska, J. See Szymendera, J.

Kanabrocki, E. L., Brar, S. S., Dakin, A., Oester, Y. T. and Kaplan, E. Trace elements in human lungs, 371*

Kaplan, E. and Domingo, M. ^{75}Se-selenomethionine metabolism in hepatic focal lesions, 441*
Kaplan, E.
See Cooke, M. B. D.
See Graham, L. A.
See Kanabrocki, E. L.
See Lopez-Majano, V.
Kasenter, A. G. See Kupic, E. A.
Katchalsky-Katzizr, A. See Winchell, H. S.
Kawana, M. See Harper, P. V.
Kazemi, H. See Greene, R.
Keaney, J., Liuzzi, A. and Freedman, G. S. ^{133}Xe gas reaction with storage vessels, 249
Keesee, R. E. See Subramanian, G.
Kennady, J. C., Miller, B. J. and Wilson, G. H. Kinetic vs. static imaging for intracranial lesions, 442*
Kennamer, R. See Kagan, A. R.
Kenny, P. J. See Smoak, W. M.
Kereiakes, J. G. See Simmons, G. H.
Khentigan, A., Weber, P., dos Remedios, L. V. and Winchell, H. S. Pinhole collimator insert for Anger camera, 442*
Kilbourn, A. L. See Brown, D. W.
Kilgore, B. B. and Bonte, F. J. Cerebral infarction in a "watershed" distribution, 756
Kinnas, N. C. See Pinsky, S. M.
Kinoshita, M., Holman, B. L., Zimmerman, R. E., Solomon, H. S., Adams, D. F., Adelstein, S. J. and Hollenberg, N. K. ^{133}Xe intrarenal blood flow, 443*
Kinsley, M. See Lebowitz, E.
Kirch, D. L. and Brown, D. W. Comparison of five linear digital filters, 371*
Kirch, D. L. and Brown, D. W. Fourier transform techniques for digital filtering of images, 443*
Kirch, D. L.
See Brown, D. W.
See Cykowski, C. B.
Kirchner, P. T., James, A. E., Reba, R. C. and Wagner, H. N. Camera diagnosis of obstructive uropathy, 444*
Kirsch, K A., Johnson, R. F. and Gorten, R. J. Total-body hematocrits in blood-compartment measurements, 17
Kitani, K. and Taplin, G. V. Catabolic pathways of ^{131}I- and ^{99m}Tc-albumin aggregates, 372*
Kitani, K., Taplin, G. V., Hayes, M. and Johnson, D. E. Küpffer cell digestion of ^{99m}Tc-albumin, 373*
Kitani, K. See Iio, M.
Klaphaak, R. B. See Jones, R. H.
Klopper, J. F.
See Atkins, H. L.
See Eckelman, W. C.
See Hoyte, R. M.
See Lebowitz, E.
Kniseley, R. M. See Nelson, B.
Knoll, G. F. See Dresser, M. M.
Knowles, L. G. See Maroglio, L. J.
Kohlenstein, L. C. Observer performance in lesion detection, 373*
Kohlenstein, L. C. See Maroglio, L. J.
Konikowski, T., Glenn, H. J., Haynie, T. P. and Farr, L. E. Variable renal clearance of ^{131}I-Hippuran, 445*
Konikowski, T. See Haynie, T. P.
Kostamis, P. See Papavasiliou, C.
Kousaka, T. See Torizuka, K.
Kovaleski, B., Coppler, M., Nelson, V. and Franco, J. Ultrasonic and isotopic blood flow studies, 479*
Kovaleski, B.
See Coppler, M.
See Franco, J.
See Nola, V.
Kozar, J. J. and Charkes, N. D. Assay ^{131}I retention in thyroid therapy, 479*
Krackow, K. A. See Gorten, R. J.
Kramer, H. See Wagner, M. S.
Kraushaar, J. J. See Stoub, E. W.
Krishnamurthy, G. T., Srinivasan, N. V. and Blahd, W. H. Camera followup of cardiac surgery, 445*
Krishnamurthy, G. T., Winston, M. A., Weiss, E. R. and Blahd, W. H. Collateral pathway imaging after superior vena cava obstruction, 189
Krishnamurthy, G. T.
See Weiss, E. R.
See Winston, M. A.
Kriss, J. P., Enright, L. P., Hayden, W. G., Wexler, L. and Shumway, N. E. Radioisotope angiocardiography, 374*
Kriss, J. P., Sullivan, R. R., McCutcheon, J. M., and Owens, R. C. Rotating memory videoscintiscope, 445*
Krizek, H. See Harper, P. V.
Krüger, M. See Schwarz, K.
Kuhl, D. E.
See Burt, R. W.
See Manlio, F. L.
See Sanders, T. P.
See Staum, M. M.
Kuhlberg, G. H. and Muehllehner, G. Scintillation camera with threshold preamplifiers, 374*
Kumano, N. See Nohara, N.
Kunzmann, A. See Tetalman, M. R.
Kupic, E. A., Kasenter, A. G. and Janney, C. D. ^{75}Se-selenomethionine uptake, varied administration techniques, 35
Kylstra, C. D. See Spector, S. S.
LaBan, M. See Dworkin, H. J.
Lander, H. See Cook, D. J.
Lange, R. C. and Spencer, R. P. ^{128}Ba-^{128}Cs generator, 446*
Lange, R. C. and Spencer, R. P. ^{7}Be for bone scanning, 446*
Lange, R. C. See Spencer, R. P.
Laplante, M. See Tran, N.
LaRose, J. H., Martin, L. and Symbas, P. Cardiac scanning with ^{99m}Tc-albumin microspheres, 447*
Larson, J. See Bosnjakovic, V.
Larson, S. M., Schall, G. L. and DiChiro, G. Incidence of unsuccessful cisternography, 555
Larson, S. M., Schall, G. L. and DiChiro, G. Unsuccessful injection in cisternography, 375*
Larson, S. M., Tuell, S. H., Moores, K. D. and Nelp, W. B. Normal spleen dimensions and weight, 123
Lathrop, K A., Gloria, I. V., Taylor, C. and Harper, P. V. ^{99m}Tc in mouse fetus, 375*
Lathrop, K. A. See Hara, T.
Laughlin, J. S.
See Benua, R. S.
See Mayer, K.
See Shiu, M. H.
See Tilbury, R. S.
Lavoie, L. Liquid Xe scintillator for positrons, 376*
Leach, K. G. Sterilization by filtration, 140
LeBel, E. See Tran, N.
Lebowitz, E., Atkins, H. L., Hauser, W., Klopper, J. F., Muranda, M. and Richards, P. ^{99m}Tc-gelatin for kidney, 376*
Lebowitz, E, Greene, M. W., Kinsley, M. and Richards, P. Cyclotron production of ^{157}Dy and ^{204}Bi, 376*
Lebowitz, E., Richards, P. and Baranosky, J. ^{18}F recoil labeling, 377*
Lebowitz, E. See Subramanian, G.
LeCroy, E. See Shleien, B.
Lee, B. J. See Benua, R. S.
Lee, J. M. See Ashburn, W. L.
Legeay, R. See Burdine, J. A.
Lehan, P. H. See Smith, R. O.
Lembares, N.
See Hara, T.
See Harper, P. V.
See Hoffer, P. B.
Lerner, S. R.
See Cooper, P. H.
See Pircher, F. J.
Levine, B. See Tjoe, S. L.
Lewis, S. E. See Bonte, F. J.
Lewitus, Z. See Lubin, E.
Lieberman, L. M., Boyd, C. M., Varma, V. M., Bergstrom, T. J. and Beierwaltes, W. H. ^{131}I-labeled chloroquine analog in melanomas, 153
Lieberman, L. M.
See Blair, R. J.
See Boyd, C. M.
See Nishiyama, H.
Lifton, J. F. See Welch, M. J.
Lin, M. S., MacGregor, R. D. and Yano, Y. Al agglutination of ^{99m}Tc-RBC, 297
Lin, M. S., MacGregor, R. D. and Yano, Y. Erythrocyte agglutination by Al(III), 378*
Lin, M. S., Winchell, H. S. and Shipley, B. A. Fe(II) or Sn(II) for ^{99m}Tc labeling of albumin, 204
Lin, M. S., Winchell, H. S. and Shipley, B. A. ^{99m}Tc labeling of albumin, 378*

Lin, M. S., Winchell, H. S. and Shipley, B. A. ^{99m}Tc-Sn albumin colloid and macroaggregate, 377*
Lin, M. S. See Winchell, H. S.
Lin, S. S. See Hoyte, R. M.
Linfoot, J. See Van Dyke, D.
Linneman, R. E. Management of radiation accidents, 447*
Lisberg, K. See Milder, M. S.
Littlepage, J. L. and Clegg, B. R. Radiation effects and chromosome analysis, 448*
Liuzzi, A. See Keaney, J.
Loberg, M. D. and Welch, M. J. Recoil ^{123}I-iodination, 448*
Lofthouse, L. See Brown, D. W.
Loken, M. K., White, R. I., Ponto, R. A., Frech, R. and Amplatz, K. Radioisotope angiography using a computer, 448*
Loken, M. K. See Payne, J. T.
Lomas, F. E. and Wagner, H. N. Pinhole collimator and brain lesion detection, 449*
Lopez-Majano, V., Schrek, R. and Kaplan, E. Leukocytes and albumin microsphere destruction, 449*
Lopez-Majano, V. See Cooke, M. B. D.
Lorber, S. A. and Fine, J. Local cerebral blood flow, 450*
Lorber, S. A. See Pierno, C. A.
Lorenz, E., Mauderli, W. and Williams, C. M. Radionuclide contamination effect on ^{99m}Mo calibration, 141
Lubin, E., Dujovny, M., Israeli, J., Askenasy, H. and Lewitus, Z. ^{113m}In scanning for intracranial aneurysm, 88
Lucchesi, O. J., Woronowicz, E. M. and Zimbler, F. B. Comparison of tomographic camera and tomographic scanner, 450*
Lull, R. J. ^{131}I-rose bengal in hyperbilirubinemia, 578
Lushbaugh, C. See Goswitz, F.
Lying-Tunell, U. and Söderborg, B. Dot counting in scintigraphy, 269
MacGregor, R. D. See Lin, M. S.
Macias, J. See Franco, J.
MacIntyre, W. J. and Houser, T. S. Point-spread functions from line-spread derivations, 379*
MacIntyre, W. J., Inkley, S. R., Roth, E., Pritchard, W. H. and Ishii, Y. Computer representation of regional organ function, 379*
MacIntyre, W. J.
See Cradduck, T. D.
See Inkley, S. R.
See Ishii, Y.
Mahoney, J. F. See Alfrey, A.
Maisey, M. N., Hurley, P. J., Natarajan, T. K. and Wagner, H. N. Rapid thyroid procedures, 380*
Manlio, F. L., Kuhl, D. E., Masland, W. S. and Staum, M. M. Triangular cross section in cerebral infarct scans, 380*
Mansfield, C. M. See Park, C. H.
Maroglio, L. J., Knowles, L. G., Kohlenstein, L. C. and Schulz, A. G. Lesion detection performance, 381*
Martin, L. See LaRose, J. H.
Marty, R. Radioisotope lymphangiography, 382*
Marty, R. and Cain, M. L. Effect of corticosteroid on brain scan, 451*
Marvin, H. N. See Tyson, J. W.
Masland, W. S. See Manlio, F. L.
Matin, P. and Goodwin, D. A. CSF scanning with ^{111}In, 668
Matin, P. See Moody, D.
Matthews, N. See Bell, R. L.
Mauderli, W.
See Lorenz, E.
See Morrison, L. M.
Mayer, K., Clarke, L., Ziminski, E. and Laughlin, J. S. Quantitative scanning of marrow and spleen, 382*
Maynard, C. D.
See Evens, R.
See Gnau, T. R.
McAfee, J. G.
See Bell, E. G.
See Duxbury, C. E.
See Subramanian, G.
McCormack, K. R., Cantril, S. T. and Kamenetsky, S. Serial lung scan in radiation therapy, 800
McCormack, K. R. See Partlow, W. F.
McCullough, D. See Sauerbrunn, B. J. L.
McCutcheon, J. M. See Kriss, J. P.
McDonald, R. A., Nesmith, J. A., Bernard, J. D. and Verdon, T. A. Residual activity in syringes, 480*
McFarland, J, Staab, E. V., Patton, D. D. and Brill, A. B. Minified liver scans, 480*
McHenry, M. M. See Wilcox, F. W.
McIntyre, K. M. and Sasahara, A. A. Correlation of pulmonary photoscan and angiogram, 732
McIntyre, K. M. and Sasahara, A. A. Perfusion defect and hemodynamic impairment, 166
McIntyre, P. See Sasaki, Y.
McKee, L. C. See Price, R.
McLarty, D. G. See Shimmins, J.
McRae, J.
See Van Dyke, D.
See Volpe, J. A.
Meade, J. H. See Tyson, J. W.
Mehan, K. P. See Ganatra, R. D.
Mehnert, P. J. and Freeman, L. M. Demonstration of hepatic artery aneurysm, 761
Mehter, A. See Subramanian, G.
Meidinger, R., Siegel, B. A., Studer, R., Curtis, C. and Potchen, E. J. Multiple tracer method in cerebral edema, 382*
Meier, D. A. and Hamburger, J. I. Thyroid: irradiation, autonomous nodules and cancer, 451*
Meigan, J. W. See Dworkin, H. J.
Meinken, G. See Eckelman, W.
Meyer, J. S. See Bell, R. L.
Milder, M. S., Lisberg, K., Evens, R. G. and Potchen, E. J. Regional blood flow, blood volume and hematocrit in dog lung, 241
Miller, B. J. See Kennady, J. C.
Miller, L. See Flicken, V.
Mishkin, F. S. and Brashear, R. E. Blood pressure response to albumin microspheres, 251
Mishkin, F. S. and Weber, K. Brain scan in hyperparathyroidism, 763
Mishkin, F. S.
See Barrett, I.
See Brashear, R.
See Dowell, J. W.
See Gize, R.
See Hawes, D.
Mitchell, L. A. See Henisz, A.
Mizejewski, G. See Quinones, J. D.
Monahan, W. G.
See Hunter, W. W.
See Shiu, M. H.
Moody, D., Matin, P. and Goodwin, D. A. Carotid blood flow, 520
Moore, R. See Payne, J. T.
Moores, K. D. See Larson, S. M.
Moreno, J. B. and DeLand, F. H. Brain astrocytoma diagnosis by scanning, 107
Morgan, W. D. See Biggin, H. C.
Morita, E. T., Fore, D. L., Trippi, A. and Seaman, R. W. Intranasal pledgets and CSF-leaks, 770
Morita, E. T. See Hartman, C. R.
Morita, R. See Torizuka, K.
Morrison, L. M., Bruno, F. P. and Mauderli, W. Camera image inequalities, 785
Moss, A. J. See Dalrymple, G. V.
Mozley, J. M. and Rollo, F. D. Quantitative comparison of gamma cameras, 383*
Muehllehner, G. and Wetzel, R. A. Section imaging by computer calculation, 76
Muehllehner, G. See Kuhlberg, G. H.
Muhletaler, C. A. See Dibos, P. E.
Mukai, T. See Torizuka, K.
Mundschenk, H., Hromec, A. and Fischer, J. Liver phagocytic activity studies with ^{198}Au and ^{99m}Tc, 711
Muranda, M. See Lebowitz, E.
Murphy, P.
See Carr, W. N.
See DePuey, E. G.
Murty, D. R. K. See Barker, S. L.
Myers, J. H., Steadham, R. E. and Blackwell, L. H. Short-lived radionuclides for cardiac output, 591
Naets, J. P. See Van Dyke, D.
Najean, Y. See Dresch, C.
Natarajan, T. K.
See DeBlanc, H. J.
See Maisey, M. N.
Naya, G. L. See Ashkar, F. S.
Neil, C. M. Exposure rate at syringe surface, 576
Nelp, W. B.
See Larson, S. M.
See Rudd, T. G.

Nelson, B., Hayes, R. L., Edwards, C. L., Kniseley, R. M. and Andrews, G. A. ^{67}Ga distribution at autopsy, 452*
Nelson, B.
See Cloutier, R. J.
See Goswitz, F.
See Hayes, R. L.
Nelson, D. See Weirich, W.
Nelson, J. P. See Smoak, W. M.
Nelson, V.
See Coppler, M.
See Franco, J.
See Kovaleski, B.
Nesmith, J. A. See McDonald, R. A.
Newman, A. See Sasaki, Y.
Newman, S. See Apfelbaum, R. I.
Nicoloff, J. T. See Siemsen, J. K.
Nishitani, H. See Torizuka, K.
Nishiyama, H., Lieberman, L. M. and Beierwaltes, W. H. Dopa concentration in hamster pancreas, 452*
Nohara, N., Tanaka, E., Hiramoto, T., Kumano, N. and Kakegawa, M. High-resolution scinticamera, 635
Nohara, N. See Hiramoto, T.
Nola, V., Franco, J., Bickhart, E., Coppler, M. and Kovaleski, B. Ultrasonic vs. radioisotopic placenta localization, 453*
Nuland, S. B. See Spencer, R. P.
Nusynowitz, M. L. and Strader, W. J. Thyroxine binding globulin capacity, 383*
Nuttall, F. Q. See Shafer, R. B.
Oester, Y. T. See Kanabrocki, E. L.
Ojemann, R. G., Hoop, B., Brownell, G. L. and Shea, W. H. Extracranial measurement of rCBF, 532
Ojemann, R. G. See Hoop, B.
Olde, G. See Preston, D. F.
Olsen, J. See Park, C. H.
O'Mara, R. E.
See Bell, E. G.
See Henry, C. A.
See Subramanian, G.
Ominsky, S. See Edwards, C. L.
O'Neal, J. T. See Rudd, T. G.
Oppenheim, B. E. Respiratory artifact on liver images, 625
Oppenheim, B. E. and Hoffer, P. B. Inspiration-expiration views for liver imaging, 453*
O'Reilly, R. J., Cooper, R. E. M. and Ronai, P. M. Computer selection of regions of interest, 384*
O'Reilly, R J., Cooper, R. E. M. and Ronai, P. M. Delayed perfusion peak in cerebral blood flow, 384*
Orme, H. W. See Gates, G. F.
Otte, W. K. See Sayle, B. A.
Ottesen, O. E. See Dibos, P. E.
Overton, T. R., Heslip, P. G., Barrow, P. A. and Jelinek, J. Pancreas visualization by subtraction technique, 493
Owens, R. C. See Kriss, J. P.
Oxley, D. K. See Wagner, H. N.
Padula, G. See Ariel, I. M.
Pailthorp, K. G. See Rudd, T. G.
Papavasiliou, C., Kostamis, P., Angelakis, P. and Constantinides, C. ^{87m}Sr localization in extraosseous tumors, 265
Park, C. H., Olsen, J. and Mansfield, C. M. Transmission-emission scanning for pericardial effusion, 453*
Parker, H. See Van Dyke, D.
Parker, J. G. See Bardfeld, P.
Parkey, R. W. See Bonte, F. J.
Partlow, W. F. and McCormack, K. R. Free fluid and cardiac position in lung scan, 2
Patel, M. C. See Desai, K. B.
Patton, D. D. Instruction with the desk-top computer, 454*
Patton, D. D. and Hertsgaard, D. B. Frontal lucency in the lateral brain scan, 454*
Patton, D. D. and Reed, R. R. Videotape analysis system for dynamic studies, 455*
Patton, D. D. See McFarland, J.
Patton, J. See Brill, A. B.
Payne, J. T., Moore, R., Wahner, H. and Loken, M. K. Cortical bone thickness, 455*
Pearson, H. A.
See Antar, M. A.
See Spencer, R. P.
Peña, H. G. and Watts, R. S. Evaluation of ^{125}I-oil red O, 245
Perrin, J. See Weirich, W.
Peskin, G. See Burke, G.
Peterson, R. E. Changes in ^{131}I therapy for hyperthyroidism, 456*
Peterson, R. E.
See Chaudhuri, Tapan K.
See Cheng, H-F.
Pierno, C. A., Band, D. and Lorber, S. A. ^{99m}Tc transmission-emission scanning, 481*
Pillay, S. K. K. See Glomski, C. A.
Pinsky, S. M., Hoffer, P. B., Kinnas, N. C. and Gottschalk, A. Bone-marrow scanning in Hodgkin's disease, 385*
Pinsky, S. M., Hoffer, P. B., Turner, D. A., Harper, P. V. and Gottschalk, A. ^{67}Ga in staging of Hodgkin's disease, 385*
Pircher, F. J., Lerner, S. R., Cooper, P. H. and Eastland, D. K. Submicronic particle aerosol scans, 385*
Pircher, F. J. See Cooper, P. H.
Pitt, B. See Hurley, P. J.
Pittman, J. A. See Goel, Y.
Pizer, S. M., Deveau, L. A., Cohen, M-D., Harris, S. J. and Hamlin, G. Multiterminal time-shared computer system, 456*
Pizer, S. M.
See Brownell, G. L.
See Vetter, H. G.
Podolsky, S., Zimmerman, H. J. and Burrows, B. A. Growth hormone and insulin response in normokalemic cirrhosis, 386*
Podolsky, S. See Cardarelli, J. A.
Poe, N. D. Effects of coronary arterial injection of MAA, 724
Poe, N. D. Intramyocardial distribution of K/^{131}Cs in infarction, 386*
Poggenburg, J. K. Production and evaluation of ^{43}K, 457*
Poggenburg, J. K.
See Holman, B. L.
See Hurley, P. J.
See Smith, R. O.
Poissant, G. R. See Quinones, J. D.
Polhemus, C. E.
See Brown, D. W.
See Cykowski, C. B.
Pollycove, M., Fawwaz, R. A. and Winchell, H. S. Hepatic iron deposition in hemochromatosis, 28
Ponto, R. A. See Loken, M. K.
Poppiti, R. J. See Blum, A. S.
Potchen, E. J.
See Meidinger, R.
See Milder, M. S.
See Secker-Walker, R. H.
Powell, M. R. See Handel, S. F.
Preston, D. F. $^{99m}TcO_4^-$ rapid thyroid test, 457*
Preston, D. F., Cool, S. and Olde, G. Storage and retrieval of information, 387*
Preston, D. F. See Sayeg, J. A.
Price, D. C. Bone-marrow imaging in leukemia and myeloma, 387*
Price, R., Johnston, R. E., Brill, A. B. and McKee, L. C. ^{59}Fe distribution in normals, 387*
Primack, A. See Schall, G. L.
Prince, J. R. Glucose metabolism in normals, 388*
Pritchard, W. H.
See Ishii, Y.
See MacIntyre, W. J.
Quinn, J. L., Gergans, G. and Weinberg, P. E. Scan detection of posterior fossa tumors, 457*
Quinn, J. L.
See Crews, M. C.
See Ramsey, R.
See Westerman, B. R.
Quinones, J. D., Boyd, C. M., Beierwaltes, W. H. and Poissant, G. R. ^{14}C-thiouracil distribution in animal fetuses, 388*
Quinones, J. D., Mizejewski, G. and Beierwaltes, W. H. Choriocarcinoma scanning, 69
Quinto, R. R. See Stoub, E. W.
Radwan, M. See Szymendera, J.
Rafter, J. J.
See Edwards, C. L.
See Hayes, R. L.
Raisis, A. See Shiu, M. H.
Ramanathan, P., Ganatra, R. D., Daulatram, K., Sen, P. K. and Blau, M. ^{203}Hg-hydroxy-Hg-fluorescein in myocardial infarcts, 641
Ramsey, R and Quinn, J. L. Scanning time for $^{99m}TcO_4^-$ brain scans, 389*
Raye, J. See Dyer, N. C.
Reba, R. C.
See Hurley, P. J.
See Kirchner, P. T.

Reed, R. R. See Patton, D. D.
Reese, I. C. See Dowell, J. W.
Refetoff, S. See Robin, N. I.
Rejali, A. M. See Benjamin, P. P.
Resnekov, L. See Harper, P. V.
Reznick, L., Webber, M. M., Victery, W. K. and Cragin, M. D. Blood clot localization in legs, 458*
Reznick, L. See Tetalman, M. R.
Rhodes, B. A. Allergic reaction to albumin microspheres, 649
Rhodes, B. A. Safety factor for albumin microspheres, 458*
Rhodes, B. A.
See Buchanan, J. W.
See Scheffel, U.
Richards, P.
See Atkins, H. L.
See Eckelman, W. C.
See Lebowitz, E.
Ripple, R. C. See Wilcox, F. W.
Ristinen, R. A. See Stoub, E. W.
Robbins, P. J. and Fortman, D. L. ^{125}I-hippuran, on-site preparation, 459*
Robbins, P. J. See Wellman, H. N.
Robertson, J. W. K.
See Andros, G.
See Shimmins, J.
Robin, N. I., Refetoff, S. and Selenkow, H. A. Computer in diagnosis of thyroid disease, 620
Robinson, G. D. Methyl-ethyl-ketone extraction of ^{99m}Tc, 459*
Robinson, R. G. Definition of nuclear medicine, 460*
Rolfes, R. See Brill, A .B.
Rollo, F. D. ^{125}I for measuring thyroid uptake, 8
Rollo, F. D. Moire pattern, 460*
Rollo, F. D., DeLand, F., Thomas, F. D. and Blair, R. J. Methods of estimating spleen mass, 460*
Rollo, F. D. and Schulz, A. G. Contrast efficiency and FWHM, 322
Rollo, F. D. and Schulz, A. G. Pulse height selection in lesion detection, 690
Rollo, F. D.
See Deaver, T. F.
See Mozley, J. M.
Ronai, P. M. See O'Reilly, R. J.
Rose, C. H. Training program for technologists, 461*
Rosenberg, R. N. See Alazraki, N. P.
Rosenstreich, M. See Subramanian, G.
Roth, E. See MacIntyre, W. J.
Rothfeld, B. Cerebral infarction scan, 47
Rubin, P. See Ciccio, S. S.
Rudd, T. G., O'Neal, J. T. and Nelp, W. B. CSF circulation following subarachnoid hemorrhage, 61
Rudd, T. G., Pailthorp, K. G. and Nelp, W. B. Nonexchangeable sodium in normals, 390*
Rudin, S., Bardfeld, P. A. and Hart, H. Magnifying multihole collimators for cameras, 831
Rudin, S. and Hart, H. Monitor for air contamination by ^{133}Xe, 145
Russotto, J. A. and Boyar, R. M. Thyroid hemiagenisis, 186
Rutkowskey, G. F. See Yasillo, N.
Ryder, L. A.
See Burdine, J. A.
See Carr, W. N.
Ryerson, T. W. See Brown, D. W.
Sabiston, D. C. See Jones, R. H.
Saegusa, K. See Arimizu, N.
Saenger, E. L. See Berke, R. A.
Saidel, G. M. See Borkat, F.
Saito, H. Total iron-binding capacity of serum, 489
Saito, H. See Sargent, T.
Samuels, L. D. Gastric mucosa visualization on ^{99m}Tc-S-colloid scans, 271
Samuels, L. D. ^{85}Sr-metastatic osteosarcoma, 767
Sanders, J. L. See Dalrymple, G. V.
Sanders, T. D. See Sanders, T. P.
Sanders, T. P. and Cohen, T. D. Cerebral spinal fluid dynamics, 390*
Sanders, T. P., Sanders, T. D. and Kuhl, D. E. Optimizing Anger camera window for ^{99m}Tc, 703
Sandler, M.
See Bell, E. G.
See Subramanian, G.
Sandor, T., Zimmerman, R. E. and Adelstein, S. J. Optical density fluctuations in scanning, 461*
Sargent, T., Saito, H. and Winchell, H. S. Fe absorption in hemochromatosis, 660
Sargent, T. See Winchell, H. S.
Sasahara, A. A. See McIntyre, K. M.
Sasaki, Y. McIntyre, P. A., Wagner, H. N., Sherr, H. P., Newman, A., Banwell, J. H. and Shreeve, W. W. Deconjugation of bile salts in malabsorption syndrome, 391*
Sasaki, Y. and Wagner, H. N. Blood flow in hemorrhagic shock, 391*
Sasaki, Y. See Hosain, F.
Sass-Kortsak, A. See Aspin, N.
Sauerbrunn, B. J. L., McCollough, D. and Fox, J. IHSA cisternography in hydrocephalus, 462*
Saunders, T. P. See Evens, R.
Sayeg, J. A. and Preston, D. F. Dose reduction in thyroid uptakes, 392*
Sayle, B. A. and Otte, W. K. Comparison of T_3 methods, 481*
Schall, G. L. and Zeiger, L. S. ^{85}Sr in metastatic osteosarcoma, 767
Schall, G. L., Zeiger, L., Primack, A. and DeLellis, R. ^{85}Sr uptake by osteosarcoma metastatic to lung, 131
Schall, G. L. See Larson, S. M.
Scheffel, U., Rhodes, B. A. and Wagner, H. N. Albumin microspheres for RES, 462*
Schneider, P. B. Cerenkov counting of ^{32}P compounds, 14
Scholz, K. L. and Sodd, V. J. Kit for separation of ^{18}F from reactor product, 463*
Scholz, K. L.
See Blue, J. W.
See Sodd, V. J.
Schrek, R. See Lopez-Majano, V.
Schulz, A. G.
See Maroglio, L. J.
See Rollo, F. D.
Schwarz, K. and Krüger, M. ^{99m}Tc-RBC preparation, 323
Seaman, R. W. See Morita, E. T.
Sear, R. and Dean, P. M. Digital ratemeter system for scanning, 320
Sear, R. and Dean, P. M. Unidirectional versus bidirectional scanning, 768
Secker-Walker, R. H. Computer-assisted renography, 392*
Secker-Walker, R. H., Armstrong, J. and Potchen, E. J. Distribution of regional lung water, 463*
Selenkow, H. A. See Robin, N. I.
Sen, P. K. See Ramanathan, P.
Serafini, A. N., Dunning, W., Charyulu, K. and Weinstein, M. B. ^{111}In- and ^{67}Ga-chloride in irradiated lymphosarcoma, 464*
Sester, L. Regional pulmonary blood-flow quantification, 481*
Shafer, R. B. and Nuttall, F. Q. Thyroid crisis induced by ^{131}I, 262
Sharma, S. M. See Desai, K. B.
Sharpe, A. R. See Walton, P. V.
Shea, W. H. See Ojemann, R. G.
Sherr, H. P. See Sasaki, Y.
Sherry, J. See Franco, J.
Shimmons, J., Alexander, W. D., McLarty, D. G., Robertson, J. W. K. and Sloane, D. J. P. $^{99m}TcO_4^-$ for measuring thyroid suppressibility, 51
Shipley, B. A.
See Lin, M. S.
See Winchell, H. S.
Shiu, M. H., Evans, R. and Fortner, J. G. Immunosuppression with ^{198}Au for canine liver allografts, 138
Shiu, M. H., Monahan, W. G., Raisis, A., Laughlin, J. S. and Fortner, J. G. Blood flow in liver homografts, 393*
Shleien, B. and LeCroy, E. Thyroid and whole-body counting, 523
Shreeve, W. W. See Sasaki, Y.
Shumway, N. E. See Kriss, J. P.
Siegel, B. A. See Meidinger, R.
Siemsen, J. K. and Telfer, N. Clinical correlation of ventilation-perfusion studies, 393*
Siemsen, J. K., Wallack, M. S. and Nicoloff, J. T. ^{125}I treatment of Graves' disease, 393*
Silverstein, G. E. See Burke, G.
Simmons, G. H. and Kereiakes, J. G. Digital ratemeter system for scanning, 321
Simmons, G. H. and Kereiakes, J. G. Unidirectional versus bidirectional scanning, 769
Sims, J. See Goel, Y.
Sisson, J. C. Research in nuclear medicine, 319

Sloane, D. J. P. See Shimmins, J.
Small, R. C. and Bennett, L. R. Normal ^{67}Ga scan, 394*
Smith, E. M.
See Amtey, S. R.
See Ashkar, F. S.
See Gottlieb, N. L.
See Smoak, W. M.
Smith, P. See Gottlieb, N. L.
Smith, R. O., Lehan, P. H., Hellems, H. K. and Poggenburg, J. K. Bolus infusion for myocardial imaging, 394*
Smith, R. O., Lehan, P. H., Hellems, H. K. and Poggenburg, J. K. Scatter problem with ^{42}K, 464*
Smith, S. See Flicken, V.
Smith, T. D. See Barker, S. L.
Smoak, W. M., Smith, E. M. and Kenny, P. J. Physiologic degradation reduction in liver scanning, 119
Smoak, W. M., Watson, D. E., Smith, E. M. and Nelson, J. P. Computer system for analysis of cerebral blood flow, 395*
Smoak, W. M. See Amtey, S. R.
Sodd, V. J., Blue, J. W. and Scholz, K. L. Pure ^{123}I production, 395*
Sodd, V. J.
See Blue, J. W.
See Scholz, K. L.
Söderborg, B. See Lying-Tuncll, U.
Solomon, H. S. See Kinoshita, M.
Som, P., Hosain, F. and Wagner, H. N. Kinetics of cisternography agents, 396*
Som, P. See Hosain, F.
Song, C. H. See Goodwin, D. A.
Sonnemaker, R. E. See Burdine, J. A.
Sorenson, J. A. Quantitating radioactivity in vivo, 396*
Sorkin, A. See Halko, A.
Sparagana, M. Assay of plasma testosterone, 253
Spector, S. S., Brookeman, V. A., Diaz, N. J. and Kylstra, C. D. Spatial distortions of the gamma camera, 397*
Spencer, R. P. Delivery of nuclear medicine, 464*
Spencer, R. P. ^{131}I tnerapy in hyperthyroidism, 610
Spencer, R. P. and Cornelius, E. A. Blood flow in mouse mammary carcinoma, 465*
Spencer, R. P. and Lange, R. C. Blood flow in varicosities, 465*
Spencer, R. P., Lange, R. C. and Treves, S. ^{135m}Ba and ^{131}Ba for bone scanning, 216
Spencer, R. P., Pearson, H. A. and Lange, R. C. Growth and medication response of spleen, 466*
Spencer, R. P., Pearson, H. A. and Touloukian, R. J. "Rapid" changes in spleen size, 397*
Spencer, R. P., Touloukian, R. J., Lange, R. C., Nuland, S. B. and Fischer, D. S. Vascular lesions and liver-spleen uptake, 397*
Spencer, R. P.
See Antar, M. A.
See Brody, K. R.
See Henisz, A.
See Lange, R. C.
Spiegler, P. Geometric response and index of resolution of collimator resolution, 547
Spolter, L. See Wagner, M. S.
Srinivasan, N. V. See Krishnamurthy, G. T.
Staab, E. V.
See Carr, H. A.
See McFarland, J.
Stahlman, M. See Dyer, N. C.
Stark, V. J. Organ localization techniques, 482*
Staum, M. M. and Kuhl, D. E. Degradation control in ^{99m}Tc-Fe hydroxide, 629
Staum, M. M. See Manlio, F. L.
Steadham, R. E. See Myers, J. H.
Stevens, P. A. See Bell, R. L.
Stoub, E. W., Kraushaar, J. J., Ristinen, R. A., Quinto, R. R. and Brown, D. W. Stable ^{50}Cr-RBC survival, 398*
Strader, W. J. See Nusynowitz, M. L.
Studer, R. See Meidinger, R.
Subramanian, G., McAfee, J. G., Bell, E. G., Sandler, M., Keesee, R. E. and Henry, C. A. ^{99m}Tc-labeled agents for kidney imaging, 399*
Subramanian, G, McAfee, J. G., Blair, R. J., O'Mara, R. E., Greene, M. W. and Lebowitz, E. ^{157}Dy-HEDTA for bone imaging, 558
Subramanian, G, McAfee, J. G., O'Mara, R. E., Rosenstreich, M. and Mehter, A. ^{99m}Tc-polyphosphate PP46 for bone, 399*
Subramanian, G, McAfee, J. G., Rosenstreich, M., Mehter, A., Greene, M. W. and Lebowitz, E. ^{157}Dy-gluconate for bone marrow, 400*
Subramanian, G., O'Mara, R. E., McAfee, J. G., Blair, R. J., Greene, M W. and Lebowitz, E. ^{157}Dy-HEDTA for bone, 400*
Subramanian, G. See Bell, E. G.
Sugarman, L. See Bardfeld, P.
Sullivan, R. R. See Kriss, J. P.
Sundaram, K. See Ganatra, R. D.
Swanstrom, S. See Dyer, N. C.
Swartzendruber, D. C. See Hayes, R. L.
Syed, I. B. and Hosain, F. Gamma-ray and absorbed dose constants for ^{135m}Ba, 630
Syed, I. B., Hosain, F. and Wagner, H. N. ^{135m}Ba for bone scanning, 467*
Syed, I. B. See Hosain, F.
Symbas, P. See LaRose, J. H.
Szymendera, J., Zoltowski, T., Radwan, M. and Kaminska, J. PVP-stabilized colloid for liver and spleen scanning, 212
Talner, W. S. See Henisz, A.
Tanaka, E.
See Hiramoto, T.
See Nohara, N.
Taplin, G. V.
See Hayes, M.
See Isawa, T.
See Kitani, K.
Taylor, C.
See Hara, T.
See Lathrop, K. A.
Taylor, D. M. See Cottrall, M. F.
Telfer, N.
See Baird, M. C.
See Fichman, M. P.
See Siemsen, J. K.
Temple, T. E. See Carr, H. A.
Terman, D. S. See Alfrey, A.
Ter-Pogossian, M. M. See Eichling, J. O.
Tetalman, M. R., Heck, L. L., Hoffer, P. B., Kunzmann, A. and Gottschalk, A. Normal inhalation lung imaging, 467*
Tetalman, M. R., Hoffer, P. B., Heck, L. L. Kunzmann, A., Gottschalk, A., Webber, M. M., Reznick, L., Cragin, M. D. and Victery, W. K. Lung scan in normals, 401*
Thomas, F. D. See Rollo, F. D.
Thomas, J. and Wiener, S. N. ^{99m}Tc- and ^{113m}In-Sn hydroxide for RES, 467*
Thomas, P. B.
See Weiss, E. R.
See Winston, M. A.
Thomson, R. A. E. See Ciccio, S. S.
Throckmorton, A. J. See Brown, D. W.
Tilbury, R. S., Dahl, J. R. and Laughlin, J. S. Cyclotron production of gaseous ^{15}O, ^{13}N, ^{11}CO and $^{11}CO_2$, 468*
Tilbury, R. S. See Benua, R. S.
Tjoe, S. L., Levine, B., Wieland, R. G. and Chen, J. C. Thyroid scan and ^{131}I therapy in hyperthyroidism, 804
Tobias, C. A. See Budinger, T. F.
Todd-Pokropek, A. E. See Cradduck, T. D.
Torizuka, K., Hamamoto, K., Morita, R., Mukai, T., Kousaka, T., Handa, J. and Nishitani, H. ^{133}Xe cerebral blood flow, 401*
Touloukian, R. J.
See Henisz, A.
See Spencer, R. P.
Trainor, J. C. See Farmelant, M. H.
Tran, N., Laplante, M. and LeBel, E. In vitro oxidation of ^{14}C-labeled compounds in human placenta, 468*
Tran, N., Laplante, M. and LeBel, E. Means for in vitro diagnosis of megaloblastic anemia, 222
Treves, S. See Spencer, R. P.
Trippi, A. See Morita, E. T.
Trites, A. E. W. Scan reproduction method, 272
Tsialas, S. P. See Hine, G. J.
Tubis, M. See Halpern, S. E.

Tucker, S. and Wieseler, D. Data enhancement by multiple reproduction, 482*
Tuell, S. H. See Larson, S. M.
Turner, D. A. See Pinsky, S. M.
Tyson, I. and Gordon, E. S. Electrolyte-hydration imbalance in obesity, 469*
Tyson, I. See Weirich, W.
Tyson, J. W., Dalrymple, G. V., Meade, J. H. and Marvin, H. N. ^{51}Cr-RBC survival kinetics in normal adult, 302
Ucmakli, A. Corpus callosum involvement in brain studies, 402*
Ueda, H. See Iio, M.
Unnikrishnan, K. See Cottrall, M. F.
Urbanek, J. and Graf, M. ^{99m}Tc-HSA and ^{113m}I in placental scanning, 825
Usher, M. S. and Arzoumanian, A. Y. Thyroid nodule scans with $^{99m}TcO_4^-$ and ^{131}I, 136
Vagenakis, A. G., Abreau, C. M. and Braverman, L. E. ^{131}I effect on serum PBI and thyroxine, 637
Vagenakis, A. G., Abreau, C. M. and Braverman, L. E. ^{99m}Tc in milk of nursing mother, 188
Vallner, J. See Weirich, W.
Van Dyke, D. C., Anger, H. O., Parker, H., McRae, J., Dobson, E. L., Yano, Y., Naets, J. P. and Linfoot, J. Bone blood flow in myelofibrosis, 507
Van Dyke, D. C.
See Verdon, T. A.
See Yano, Y.
Varma, V. M.
See Blair, R. J.
See Lieberman, L. M.
Veatch, R. L. See Graham, L. A.
Verdon, T. A., Anger, H. O., Yano, Y. and Van Dyke, D. C. Spheroidized ^{99m}Tc-HSA microspheres, 469*
Verdon, T. A.
See McDonald, R. A.
See Yano, Y.
Vetter, H. G. and Pizer, S. M. Scan image quality, 526
Victery, W. K.
See Cragin, M. D.
See Reznick, L.
See Tetalman, M. R.
See Webber, M. M.
Vincent, W. See Bosnjakovic, V.
Virden, H. H. See Dunn, C. J.
Vodopick, H. See Goswitz, F.
Voelker, W. H. See Benjamin, P. P.
Vogel, J. M. See Bergeron, D. A.
Volpe, J. A., McRae, J. and Anger, H. O. Clinical experience with tomographic scanner, 101
Wagner, H N., DeBlanc, H. J., Waters, J. R. and Oxley, D. K. Automatic monitoring of hemodialysis, 403*
Wagner, H. N.
See Buchanan, J. W.
See DeBlanc, H. J.
See DeLand, F. H.
See Dibos, P. E.
See Evdokimoff, V.
See Hosain, F.
See Hurley, P. J.
See Kirchner, P. T.
See Lomas, F. E.
See Maisey, M. N.
See Sasaki, Y.
See Scheffel, U.
See Som, P.
See Syed, I. B.
See Wesselhoeft, H.
Wagner, M. S., Bennett, L. R., Gonick, H. C. and Kramer, H. Comparison and correlation of kidney agents, 470*
Wagner, M. S., Bennett, L. R., Kramer, H. and Gonick, H. C. Kidney imaging after percutaneous renal biopsy, 470*
Wagner, M. S., Huemer, R. P., Spolter, L. and Bickert, C. ^{111}In and ^{114m}In in mouse tumor, 471*
Wahner, H. See Payne, J. T.
Walker, A. G. and Holmes, R. A. Lung scan variation with position, 403*
Walker, A. G. See Holmes, R. A.
Wallack, M. S. See Siemsen, J. K.
Walsh, C. See Halpern, S. E.
Walton, P. W. and Sharpe, A. R. Electronic marking device for gamma camera, 257
Waltz, A. G., Wanek, A. R. and Anderson, R. E. Intracarotid ^{133}Xe injection for cerebral blood flow, 403*
Wanek, A. R. See Waltz, A. G.
Waters, J. R. See Wagner, H. N.
Watson, D. E. See Smoak, W. M.
Watson, E. E. See Cloutier, R. J.
Watts, F. C. See Gnau, T. R.
Watts, R. S. See Peña, H. G.
Webber, M. M., Cragin, M. D. and Victery, W. Al in ^{99m}Tc generator eluants, 700
Webber, M. M., Cragin, M. D. and Victery, W. K. Atropine in ^{131}I thyroid therapy, 482*
Webber, M. M., Victery, W. K. and Cragin, M. D. Thrombophlebitis imaging, 471*
Webber, M. M.
See Cragin, M. D.
See Reznick, L.
See Tetalman, M. R.
Weber, D. A. and Andrews, H. L. Ca tissue content by neutron activation analysis, 472*
Weber, D. A.
See Ciccio, S. S.
See Decker, L.
Weber, K. See Mishkin, F. S.
Weber, P. See Khentigan, A.
Weber, P. M. See dos Remedios, L. V.
Weinberg, P. E. See Quinn, J. L.
Weinhold, P. A. See Blair, R. J.
Weinstein, M. B. ^{99m}Tc-RBC, 577
Weinstein, M. B. ^{99m}Tc-RBC preparation, 324
Weinstein, M. B., Joensuu, O. I., Duffy, P. and Bennett, B. Al agglutination of ^{99m}Tc-RBC, 183
Weinstein, M. B. See Serafini, A. N.
Weirich, W., Vallner, J., Nelson, D., Perrin, J., Will, J. and Tyson, I. ^{131}I-pyrazol uptake by muscle, 404*
Weiss, E. R., Winston, M. A., Krishnamurthy, G. T., Hartenbower, D. L., Blahd, W. H. and Thomas, P. B. Ureteral kinking and hydronephrosis in kidney transplant, 43
Weiss, E. R.
See Krishnamurthy, G. T.
See Winston, M. A.
Welch, M. J., Lifton, J. F. and Carter, C. C. ^{13}N-labeled compounds, 404*
Welch, M. J., Lifton, J. F. and Gaspar, P. P. Cyclotron production of ^{18}F, 405*
Welch, M. J. See Loberg, M. D.
Wellman, H. N., Berke, R. A., Robbins, P. J. and Anger, R. T. ^{123}I-Hippuran renogram, 405*
Wells, C. L. and Gorten, R. J. Evaluation of plasma volume kits, 483*
Wennemark, J. R. See Harper, A. G.
Wesselhoeft, H., Hurley, P. J., and Wagner, H. N. $^{99m}TcO_4^-$ angiocardiography in infants, 406*
Westerman, B. R. and Quinn, J. L. Routine cerebral radionuclide angiogram, 406*
Wetzel, R. A. See Muehllehner, G.
Wexler, L. See Kriss, J. P.
White, R. I. See Loken, M. K.
Wieland, R. G. See Tjoe, S. L.
Wiener, J. D. Thyroid nomenclature, 318
Wiener, S. N. ^{133}Xe studies in lung carcinoma, 472*
Wiener, S. N.
See Borkat, F.
See Thomas, J.
Wieseler, D. See Tucker, S.
Wilcox, F. W., Ripple, R. C., McHenry, M. M. and Edgar, W. H. Full-size scintiphotography in pericardial effusion diagnosis, 134
Wilensky, S. See Brownell, G. L.
Wilkinson, R. H. and Goodrich, J. K. Neurofibroma mimicking a parotid gland tumor, 646
Will, J. See Weirich, W.
Williams, C. M.
See Brookeman, V. A.
See Lorenz, E.
Williams, J. P. Marking device for gamma camera, 300
Wilson, C. B. See Handel, S. F.
Wilson, G. H. See Kennady, J. C.
Winchell, H. S., Lin, M. S., Shipley, B., Sargent, T. and Katchalsky-Katzir, A. ^{51}Cr- and ^{99m}Tc-caseidin in renal cortex, 678
Winchell, H. S.
See Fawwaz, R. A.
See Khentigan, A.
See Lin, M. S.
See Pollycove, M.
See Sargent, T.
Winston, M. A., Halpern, S. E., Weiss, E. R., Endow, J. S. and Blahd, W. H. ^{99m}Tc-Fe-ascorbic acid complex for scanning, 171

Winston, M. A., Weiss, E. R., Krishnamurthy, G. T., Blahd, W. H. and Thomas, P. B. ^{131}I-fibrinogen for detecting renal transplant rejection, 407*
Winston, M. A.
See Krishnamurthy, G. T.
See Weiss, E. R.
Wolf, A. P. See Hoyte, R. M.
Wood, D. E. and Bowen, B. M. ^{95}Zr and ^{124}Sb in ^{99}Mo-^{99m}Tc generators, 307
Woronowicz, E. M. See Lucchesi, O. J.
Wyper, D. J. and Gillespie, F. C. Evaluating focused collimators, 197
Yamada, H. See Iio, M.
Yano, Y., Van Dyke, D. C., Verdon, T. A. and Anger, H. O. Comparison of ^{157}F for bone, 815
Yano, Y., Van Dyke, D. C., Verdon, T. A. and Anger, H. O. Cyclotron production of ^{157}Dy, 407*
Yano, Y.
See Lin, M. S.
See Van Dyke, D.
See Verdon, T. A.
Yasillo, N., Charleston, D. B., Rutkowskey, G. F., Hoffer, P. B. and Gottschalk, A. Large film recording of camera images, 473*
Yeh, E. Elimination of $^{99m}TcO_4^-$ from salivary glands, 770
Yipintsoi, T., Gustafson, D. C. and Bassingthwaighte, J. B. Separation of unbound iodide in ^{125}I-antipyrine, 149
Zaret, B. L. See Hurley, P. J.
Zeiger, L. See Schall, G. L.
Zimbler, F. B.
See Clark, G. E.
See Lucchesi, O. J.
Ziminski, E. See Mayer, K.
Zimmerman, H. J. See Podolsky, S.
Zimmerman, R. E.
See Kinoshita, M.
See Sandor, T.
Zingesser, L. H. See Apfelbaum, R. I.
Zoltowski, T. See Szymendera, J.

1971 SUBJECT INDEX

Asterisk indicates abstract

Accelerator
^{123}Xe production, parent of ^{123}I, 417*
Adrenal glands
^{14}C- and ^{125}I-cholesterol, scans, in dogs, 176
Aerosols
^{113m}In-HSA for lung, preparation, 138
^{113m}In, lung imaging, 765
submicronic particles, 385*
^{99m}Tc- and ^{113m}In-albumin, compared with ^{133}Xe gas, ventilation studies, 440*
Albumin, macroaggregated
see Iodine-131, albumin, Technetium-99m, albumin
Aluminum
in ^{99m}Tc generator eluent, 700
Americium-241
transmission imaging for bone-mineral content, 351*
Antibody
radioimmunoassay of thyrotropin, 424*
thyroid antimicrosomal, solid-phase radioimmunoassay, 356*
to chorionic gonadotrophin, ^{125}I-labeled, choriocarcinoma scanning, in hamsters, 69
Antimony-124
in eluate of ^{99}Mo-^{99m}Tc generators, 307
Antipyrine
^{125}I-labeled, unbound iodide separation, 149
Arm
see Extremities
Arsenic-74
personnel contamination, 523
Arthritis
Au excretion, activation analysis, 359*
Autofluoroscope
compared with scintillation cameras and scanner, ^{18}F and ^{85}Sr, 415*
Bacteria
screening, ^{14}C-glucose and $^{14}Co_2$, 427*
Barium-128
^{128}Ba-^{128}Cs generator, 446*
Barium-131
bone scanning and imaging, 216
Barium-135m
bone scanning and imaging, 216
bone scans, 467*
mechanism of bone uptake, in animals, 367*
specific gamma ray and absorbed-dose constants, 630
Beryllium-7
bone, in mice, 446*
Bilirubin
^{131}I-BSP, constitutional hyperbilirubinemia, 95, 578
Bismuth-204
cyclotron production, 376*
Bismuth-206
nitrate, tumor localization, in animals, 355*
Blood
^{14}C-fatty acid incorporation in vitro, mouse leukemic cells, 438*
^{15}C- and ^{32}P-DFP labeled granulocytes, 774
cultures, bacteremia detection, ^{14}C glucose, 351*
Fe absorption in hemochromatosis, effect of phlebotomy therapy, 660
human serum binding of $^{99m}TcO_4^-$, 365*
leukocyte destruction of albumin microspheres, in vitro, 449*
^{13}N-NH_3, body levels, in animals, 404*
pressure, response to high-dose albumin microspheres, in dogs, 251
regional pulmonary blood flow, blood volume and hematocrit, in dogs, 241
^{99m}Tc-S colloid, effect on human platelets, 429*
total-body hematocrit in blood-compartment measurement, 17
Blood flow
see also, specific organs
albumin microspheres effect, in dogs, 458*
alterations in perfusion defect, 166
carotid, $^{99m}TcO_4^-$, 520
carotid artery, ultrasonics and $^{99m}TcO_4^-$, 479*
in tumor, in mice, 465*
normal legs, ^{99m}Tc-MAA, 458*
superior vena cava obstruction, pathway imaging, 189
varicose veins, ^{113m}In, 465*
velocity in hemorrhage, ^{85}Kr, in dogs, 391*
Blood plasma
volume, kit evaluation, 483*
Board of Trustees
professional competence components, 840

Bone
^{135}Ba and ^{131}Ba, scans, images, 216
^{128}Ba-^{128}Cs, in vivo generator, in dog, 446*
^{135m}Ba scans, 467*
Ca, whole body, neutron activation analysis, in dogs, 345*
^{47}Ca metabolism in dialyzed uremic patients, 334*
comparison ^{157}Dy-HEDTA and ^{18}F, 815
^{157}Dy, cyclotron production, 376*
^{157}Dy-HEDTA, in animals, 400*
^{157}Dy-HEDTA, production, 407*
^{157}Dy-HEDTA and ^{85}Sr, in animals, 558
^{18}F and ^{85}Sr scans, and electromyograph, 430*
^{18}F, blood flow in myelofibrosis, 506
^{18}F, oral dose, 441*
^{18}F studies in lymphoma, 340*
^{125}I and ^{241}Am, transmission method, mineral content, in phantoms, 351*
^{125}I transmission, cortical thickness, in vitro, 455*
mechanism of uptake, in animals, 367*
physical properties of isotopes for bone imaging, 558
^{85}Sr, scan minification, 639
^{85}Sr uptake by osteosarcoma metastatic to lung, 131
^{87m}Sr, metastatic osteosarcoma, 767
^{87m}Sr, optimal scannnig time, 142, 143
^{87m}Sr, sequential imaging, in dogs, 423*, 424*
$^{99m}TcO_4^-$ uptake in hyperparathyroidism, 763
^{99m}Tc-polyphosphate PP46, in animals, 399*
Bone marrow
changes due to total-body irradiation, 359*
^{157}Dy-, ^{153}Sm- and ^{177}Lu-chelates, in animals, 400*
imaging, leukemia, and myeloma, 387*
quantitative uptake, 382*
redistribution after irradiation in Hodgkin's, 425*
^{99m}Tc-S colloid, 385*
Book Report
Nuklearmedizin szintigraphische diagnostik, 839
Use and interpretation of lung scan, 838
Brain
astrocytoma diagnosis, 107
blood flow, comparison $^{99m}TcO_4^-$ and ^{133}Xe, 338*
blood flow, computer selection of regions of interest, 384*
blood flow, delayed digital perfusion peak, 384*
blood flow, H_2 ^{15}O and ^{133}Xe, 431*
blood flow, regional, stochastic model, 540
blood flow, regional, $^{99m}TcO_4^-$, ^{131}I-Hippuran, 532
blood flow, $^{99m}TcO_4^-$, improved visualization, 428*
blood flow, $^{99m}TcO_4^-$, lesion detection, 442*
blood flow, ^{133}Xe, 401*, 403*
blood flow, ^{133}Xe, in monkeys, 450*
cerebral edema in stroke, multiple tracer, in rats, 382*
cerebral infarct, $^{99m}TcO_4^-$ scan, 47
cerebral infarct, triangular cross section, 380*
cerebral infarct, "watershed" distribution, 756
cerebral radionuclide angiogram, usefulness, 406*
chemotherapy, BCNU and DIC, 292
computer-camera system, clinical value, 395*
corpus callosum involvement, 402*
head-holding device, 305
^{131}I-IHSA cisternography in cerebrovascular occlusion, 435*
^{113m}In, intracranial aneurysm, 88
^{113m}In-, ^{99m}Tc- and ^{169}Yb-DTPA, in sarcoma, in animals, 364*
KI block of choroid plexus in $^{99m}TcO_4^-$ scans, 98
$^{13}NH_3$, imaging, 368*
posterior fossa tumors, 458*
scan and image, frontal lucency, 454*
scan compared with angiography, subdural hematoma, 358*
scan compared with arteriogram, 439*
scanning in children, 368*
section imaging by computer calculation, 76
subdural hematoma demonstrated in cisternography, 758
$^{99m}TcO_4^-$, clearance from salivary glands with lemon, 770
$^{99m}TcO_4^-$, corticosteroid effect on scan, 451*
$^{99m}TcO_4^-$, optimum scanning time, 389*
$^{99m}TcO_4^-$, pinhole collimator, 449*
$^{99m}TcO_4^-$, subdural hematoma, 336*, 414*
$^{99m}TcO_4^-$, tomography compared to camera imaging, 101
$^{99m}TcO_4^-$, uptake in skull in hyperparathyroidism, 763
unidirectional scanning, 768, 769
unusual patterns in cerebrovascular disease, 363*
Bromine-77
cyclotron production of ^{77}Kr parent, 416*
Bromine-82
extracellular water, 413*
extracellular water in hyponatremia, 432*
Calcium
content of biological samples, neutron activation analysis, 472*
phosphate effect on serum Ca, in rats, 346*
whole-body, by neutron activation analysis, 345*
whole-body, in vivo neutron activation analysis, 499
Calcium-45
standard, quench analysis of isotopes, 552
Calcium-47
metabolism in dialyzed uremic patients, 334*
Calcium-49
whole-body Ca by neutron activation analysis, 345*
Californium-252
probe for neutron activation analysis of subcutaneous tissue, 335*
Camera, positron
dynamic function application, 344*
3-D activity distribution compared to tomography, 347*
Camera, scintillation
accessories for simultaneous imaging, 771
based on delay-line time conversion, 160
bialkali photomultiplier tubes, 418*
brain blood flow, computer system, clinical value, 395*
brain blood flow, delayed digital perfusion peak, 384*
brain studies, head-holding device, 305
central computer processing of interhospital data, 337*
collateral pathway imaging after superior vena cava obstruction, 189
collimator, high-sensitivity, 414*
collimator, magnifying, 352*
collimator, magnifying multihole, 831
collimator, pinhole insert, 442*
collimator, pinhole, kidney structure, 418*
collimator, pinhole, $^{99m}TcO_4^-$, brain, 449*
compared with scanner and autofluoroscope, ^{18}F and ^{85}Sr, 415*
compared with tomographic scanner, 101
comparison of ^{18}F and ^{157}Dy-HEDTA for bone, 815
comparison of four cameras, 383*
computer, automatic quantitation of regional lung function, ^{133}Xe, 422*
computer, liver respiratory artifact reduction, 625
computer program for image inequalities, 785
computer, section imaging, 76
computer system, display formats, 423*
computer system, mathematical operation validity, 341*
computer visual display system, 341*
delay-line time conversion, 635
economics, 352*
full-size scintiphotography, pericardial effusion, 135
image intensifier, cardiac output, in dogs, 112
large crystal, 93
large film system, 473*
magnetic-tape system, recording and playback, 425*
marking device, 257, 300
method for peaking and collimator choice, 478*
Moire pattern, 460*
multiple reproduction for image improvement, 482*
myocardial infarction, imaging requirements, 436*
optimizing window for ^{99m}Tc, 703
organ localization techniques, 482*

point-spread functions from line-spread recordings, 379*
pulmonary blood flow, ^{131}I-MAA, 481*
rotating memory videoscintiscope, 445*
spatial distortions, 397*
$^{99m}TcO_4^-$ thyroid, rapid studies, 380*
threshold preamplifiers, 374*
tomography, 433*
transmission-emission imaging, ^{99m}Tc, 481*
videotape analysis system, 455*
whole-body, 426*

Carbon
whole-body, neutron activation analysis, in mice, 808

Carbon-11
cyclotron production, 468*
L-aspartic acid-4-^{11}C, tumor scanning, in mice, 361*

Carbon-14
cholesterol, adrenal concentration, in dogs, 176
5,5-dimethyl 2,4-oxazolidinedione, intracellular pH, 413*
dopamine, pancreatic adenocarcinoma, in hamsters, 452*
formate, catabolism in folic acid deficiency, in rats, 222
glucose and $^{14}CO_2$, blood cultures, 351*
glucose, metabolism in normals, 388*
glucose, screening for occult bacteria, 427*
glycine cholate, malabsorption syndrome, 391*
intracellular pH in hyponatremia, 432*
iodoacetic acid, preparation and distribution, in animals, 421*
octanoic and -oleic acid, in vitro incorporation, mouse leukemic cells, 438*
phenylalanine, -leucine, and -glucose, in vitro oxidation by human placenta, 468*
quench analysis, 552
testosterone, with ^{3}H-acetic anhydride, assay of plasma testosterone, 253
thiouracil, in fetus, in animals, 388*

Carbon-15
and ^{32}P-DFP labeled granulocytes, 774

Cardiac
see Heart

Cerebral blood flow
see Brain, blood flow

Cerebral spinal fluid
see Cisternography

Cerenkov rays
^{32}P, specific activity, 14

Cesium-128
^{128}Ba-^{128}Cs generator, 446*

Cesium-131
myocardial infarct, in dogs, 386*

Cesium-137
personnel contamination, 523

Chelates
DTPA, ^{99m}Tc-, ^{113m}In- and ^{169}Yb-, in brain sacroma, in animals, 364*
^{157}Dy-HEDTA, bone, in animals, 400*, 558
^{157}Dy-HEDTA, bone, production, 407*
^{153}Sm-, ^{177}Lu- and ^{157}Dy-, bone marrow, in animals, 400*
^{99m}Tc-DTPA, difference between kit preparations, 699
^{99m}Tc-DTPA, glomerular filtration rate, 338*
^{99m}Tc-S-Na_2 EDTA, preparation, distribution in animals, 64

Chlorine
whole-body, in vivo neutron activation analysis, 499

Chlorine-36
quench analysis, 552

Chlormerodrin
see Mercury-197, chlormerodrin; Mercury-203, chlormerodrin

Chloroquine
analog, ^{131}I-labeled, melanoma therapy, in dogs, 153
^{125}I-, ocular melanoma diagnosis, 601, 771

Cholesterol
^{125}I- and ^{14}C-labeled, adrenal scans, in dogs, 176

Choroid plexus
$KClO_4$ effect on $^{99m}TcO_4^-$ uptake, 312

Chromatography
chemical analysis of ^{99m}Tc-labeled compounds, 354*
purity check ^{99m}Tc-S colloid, 513

Chromium-50
RBC survival, neutron activation analysis, in dogs, 398*
RBC survival, neutron activation analysis, in monkeys, 31

Chromium-51
caseidin, kidney cortex localization, in animals, 678
inulin, cisternography, kinetics, in dogs, 396*
RBC, regional lung water distribution, in dogs, 463*
RBC survival, effect of mannitol, 478*
RBC survival, in normals, 302
red cell volume in dog lung, 241
spleen and marrow, quantitative uptake, 382*
total-body hematocrit in blood-compartment measurement, 17
vitamin B_{12} absorption, with ^{58}Co, 357*

Chromosome
analysis, radiation effects, 448*

Cisternography
communicating hydrocephalus, 348*
CSF leak localization, 770
diffusion rates of radiopharmaceuticals, in phantom, 350*
^{131}I-HSA, cerebrovascular occlusion, 435*
^{131}I-HSA, in hydrocephalus, 462*
^{131}I-HSA, subarachnoid hemorrhage, 61
^{111}In-PO_4 colloid and -transferrin complex, 668
influence of previous lumbar puncture and pneumoencephalography, 555
kinetics of ten agents, in dogs, 396*
occult hydrocephalus, 350*
quantitative CSF dynamics, 390*
subdural hematoma demonstration, 758
unsuccessful injections, 375*
^{169}Yb-DTPA, 683
^{169}Yb-DTPA, biological fate, in dogs, 428*

Cobalt-57
marker for organ localization, 482*

Cobalt-58
vitamin B_{12} absorption, with ^{51}Cr, 357*

Collimator
diverging, camera, Moire pattern, 460*
dual, quantitative spleen and marrow uptake, 382*
focused, concept of volume response, 409*
focused, quantitative evaluation, 197
geometric response and index of resolution, 547
high sensitivity, scintillation camera, 414*
magnifying multihole, for camera, 831
magnifying, scintillation camera, 352*
pinhole, scintillation camera, 479*
pinhole, scintillation camera, $^{99m}TcO_4^-$, brain, 449*
pinhole insert, scintillation camera, 442*
point-spread functions from line-spread recordings, 379*
regional cerebral blood flow, $^{99m}TcO_4^-$, ^{131}I-Hippuran, 532
scintillation camera, method for choice, 478*
scintillation camera tomography, 433*

Colloids
Fe-hydroxide, lung retention, 580, 581
^{113m}In-^{59}Fe-$Fe(OH)_3$ retention, in mice, 5
In-hydroxide, toxicity, in mice, 431*
PVP stabilized, for liver and spleen, 212
^{99m}Tc-S with Na_2 EDTA, preparation, distribution in animals, 64

Committee on Education and Training
professional competence components, 840

Computer
analysis of renogram, 360*
analytical approach to recording electrocardiogram, 792
camera, automatic quantitation of regional lung function, ^{133}Xe, 422*
camera system, brain, clinical value, 395*
camera system, display formats, 423*

camera system, liver respiratory artifact reduction, 625
camera system, mathematical operation validity, 341*
camera system, rapid $^{99m}TcO_4^-$ thyroid studies, 380*
central processing of interhospital data, 337*
delayed digital perfusion peak in cerebrovascular disease, 384*
desk-top, instruction assistance, 454*
diagnosis, thyroid disease, 620
digital, visual display, 341*
matrix inversion, ^{131}I thyroid phantom scan, 416*
multiterminal data processing system, 456*
multiterminal time-shared system, 421*
optical spatial filtering of scans, 342*
renography, 392*
representation of regional organ function variation, 379*
scan processing, 287, 434*
section imaging, 76
selection of regions of interest in cerebral circulation, 384*
sources of camera image inequalities, 785
$^{99m}TcO_4^-$ angiography, 448*

Contrast efficiency function
and FWHM, 321, 322

Copper-64
and ^{67}Cu, absorption in Wilson's disease, 413*

Copper-67
and ^{64}Cu, absorption in Wilson's disease, 412*

Cows
see Generators

Cyclotron
^{157}Dy and ^{204}Bi production, 376*
^{157}Dy production, for bone, 407*
^{18}F production from ^{20}Ne, 405*
^{18}F recoil labeling, 377*
^{123}I production, gas-flow target, 395*
^{77}Kr production, (parent of ^{77}Br), 416*
^{15}O, ^{13}N, ^{11}C, production, 468*
^{99m}Tc production, 739

Data system
inter-institutional services, 464*
multiterminal system, 456*
multiterminal time-shared, 421*
rotating memory videoscintiscope, 446*
videotape analysis, 455*

Detector
lithium-drifted germanium, evaluation, 342*
lithium-drifted germanium, in scanner, 25

Digital computer
see Computer

Display system
scintillation camera, large film, 473*

Distinguished Nuclear Pioneer
Glenn Seaborg, 1971, 328

Distinguished Scientist Award
Benedict Cassen, July 1970, 573

Dosimetry
absorbed-dose calculations, ^{131}I-Hippuran, 841, 842
^{135m}Ba, specific gamma-ray and absorbed-dose constants, 630
^{14}C-thiouracil in fetus, in animals, 388*
^{67}Ga and ^{72}Ga, 348*
health physics and "new" radiopharmaceuticals, 420*
low-dose ^{125}I thyroid uptake, 392*
total-body irradiation effect on bone marrow, 359*

Dysprosium-157
cyclotron production, 376*
gluconate, bone marrow, in animals, 400*
HEDTA, bone, production, 407*
HEDTA, bone imaging, in rabbits, 558
HEDTA, bone, in animals, 400*
HEDTA compared with ^{18}F, for bone, 815

Editor's letter
American Board of Nuclear Medicine, 531
article review system, 585, 773

Erythrocyte
see Red blood cell

Extremities
albumin microspheres, effect on blood flow, in dogs, 458*
blood flow in varicose veins, ^{113m}In, 465*
blood flow, ^{99m}Tc-MAA, 458*
exposure rate at syringe surface, 574, 575

Eyes
neutron effect, 343*

Fetus
^{14}C-thiouracil from mother, in animals, 388*
^{58}Fe in pregnancy, 353*
placental imaging, ^{99m}Tc-HSA and ^{113m}In-transferrin complex, 825
$^{99m}TcO_4^-$, from mother, in mice, 375*
ultrasonic placenta localization, 453*

Filters
linear digital, comparison of five, 371*
optical spatial filtering of scan, 85
sterilization, 140
use with bialkali photomultiplier tubes for camera, 418*

Fluorescence
scanning, iodine, thyroid, 366*

Fluorine-18
bone blood flow in myelofibrosis, 506
bone, mechanism of uptake, in animals, 367*
bone, oral dose, 441*
bone scan and electromyograph, 430*
bone studies in lymphoma, 340*
compared with ^{157}Dy-HEDTA for bone, 815
comparison of scintillation cameras, autofluoroscope, and scanner, 415*
cyclotron production from ^{20}Ne, 405*
fluorotryptophan, distribution, in mice, 367*
^3H contamination test, 476*
"kit" for separation from reactor product, 463*
phenylalanine, in animals, 280
production, deuterons on neon, 362*
uracil, recoil labeling, 377*

Folic acid
deficiency, ^{14}C-formate catabolism, in rats, 222

Gallbladder
^{131}I- and ^{99m}Tc-albumin aggregates, catabolic pathways, in dogs, 372*
malabsorption of ^{14}C-glycine cholate, 391*
^{99m}Tc-albumin microaggregates, biliary excretion, 373*

Gallium-67
chelate, cisternography, kinetics, in dogs, 396*
chloride, irradiated lymphosarcoma, in rats, 464*
chloride, metabolism, cell culture, 349*
citrate, in Hodgkin's disease, 385*
citrate, localization in non-malignant tumors, 338*
citrate, lymphangiography, 431*
citrate, tumor localization, in animals, 355*
colloid, cisternography, kinetics, in dogs, 396*
distribution in humans at autopsy, 452*
ferric hydroxide, retention, in animals, 580
intracellular deposition, in animals, 364*
normal distribution pattern, 394*
radiation dose, 348*
tumor scanning, 355*
tumor uptake, effect of Sc, in animals, 437*

Gallium-72
radiation dose, 348*

Gastrointestinal tract
^{14}C-glycine cholate, malabsorption, 391*
^{64}Cu and ^{67}Cu absorption in Wilson's disease, 412*
Fe absorption in hemochromatosis, effect of phlebotomy therapy, 660
^{75}Se-selenomethionine, kinetic studies, 365*
^{99m}Tc interference on liver scan, 697
vitamin B_{12} absorption, ^{51}Cr and ^{56}Co, 357*

Generators
^{128}Ba-^{128}Cs, 446*

^{99}Mo-^{99m}Tc, Al^{+3} agglutination of red blood cells, 378*
^{99}Mo-^{99m}Tc, Al in eluate, 297, 476*, 700
^{99}Mo-^{99m}Tc, source of contaminants, 271
^{99}Mo-^{99m}Tc, ^{95}Zr and ^{124}Sb in eluate, 307
radionuclide contamination in ^{99}Mo calibration, 141

Germanium-68
personnel contamination, 523

Glomerular filtration rate
^{125}I-iothalamate, correlated with ^{99m}Tc-DTPA and ^{131}I-hippuran renograms, 470*
^{99m}Tc-DTPA, 338*

Glucose
^{14}C-labeled, metabolism in normals, 389*

Gold
excretion in rheumatoid arthritis, activation analysis, 359*

Gold-198
immunosuppression in liver allograft, in dogs, 138
liver blood flow measured by phagocytic activity, 711
liver scan in schistosomiasis japonica, 655
lymphangiography in infants, 315
pancreas imaging, dual-isotope subtraction method, 493
portal streamlining after mesenteric vein injection, 357*

Hand
see Extremities

Health physics
exposure rate at syringe surfaces, 574, 575
"new" radiopharmaceuticals, 420*
personnel contamination, 523
regional accident management, 447*

Heart
analytical approach to recording radiocardiograms, 792
blood flow, myocardial function, effect of macroaggregates, in dogs, 724
cardiac output, image-intensifier camera, ^{99m}Tc-HSA, in dogs, 112
cardiac output, ^{113m}In, ^{99m}Tc, cardio-green dye, in dogs, 591
computer processing, $^{99m}TcO_4^-$ angiography, 448*
computer representation of regional organ function variation, 379*
^{125}I-oil red O for quantitation of arterial lipid, 245
^{131}I-MAA, postoperative followup, 445*
intracardiac shunts, dual-isotope method, 341*
intracardiac shunts, in children, 334*
intracardiac shunts, $^{99m}TcO_4^-$, 370*
$^{43}KCl_3$, imaging, 516
^{43}K scan, in dogs, 464*
myocardial blood flow, ^{43}K, in dogs, 440*
myocardial imaging, $^{13}NH_3$, 368*
myocardial infarct, ^{131}Cs, in dogs, 386*
myocardial infarct, ^{203}Hg-hydroxy-Hg-fluorescein, in dogs, 641
myocaridal infarct, imaging requirements, 436*
myocardial perfusion and viability, ^{43}K and ^{86}Rb, in dogs, 366*
myocardial perfusion, normal, in dogs, 419*
myocardial scanning, bolus isotope infusion, in dogs, 394*
myocardial uptake ^{131}I-pyrazole, in animals, 404*
pericardial effusion, full-size scintiphotography, 134
pericardial transmission-emission scanning, $^{99m}TcO_4^-$, 453*
pool scanning compared with echocardiography, 438*
position in lung scan, 2
pulmonary blood flow in mitral valve disease, 345*
scan, ^{99m}Tc-albumin microspheres, in dogs, 447*
shunting measurement, ^{99m}Tc-MAA injection, 746
^{99m}Tc-HSA, ventricular aneurysm, 369*
$^{99m}TcO_4^-$, anatomic resolution, 371*
$^{99m}TcO_4^-$, angiocardiograms, in infants, 406*
$^{99m}TcO_4^-$, congenital heart disease, 374*
$^{99m}TcO_4^-$, peripheral anteriography, 429*

Hippuran
see Iodine-123; Iodine-131, Hippuran; Kidney, Renography

Histamine
local effect on lungs, in dogs, 420*

Hormones
assay plasma testosterone, ^{3}H, ^{14}C, 253
decreased ^{40}K, growth hormone and insulin in cirrhosis, 386*
^{125}I-antibody to chorionic gonadotrophin, choriocarcinoma scanning, in hamsters, 69

Imaging
see Camera, scintillation; specific organs

Immunoassay
solid-phase, thyroid antimicrosomal antibodies, 356*
thyrotropin, double-antibody scheme, 424*

Indium
hydroxide, toxicity, in mice, 431*

Indium-111
chloride, irradiated lymphosarcoma, in rats, 464*
citrate, tumor uptake, in mice, 471*
ferric hydroxide retention, 580
PO_4 colloid and -transferrin, cisternography, 668

Indium-111m
chloride, tumor localization, in animals, 355*

Indium-113m
albumin microspheres, Fe free labeling, 616
albumin microspheres, preparation, 462*
blood flow in varicose veins, 465*
cardiac output, in dogs, 591
chelate, extracellular fluid, in animals, 367*
colloid, inhalation lung imaging, in normals, 467*
DTPA, compared with ^{99m}Tc- and ^{169}Yb-DTPA, in brain sarcoma, in animals, 364*
DTPA, hemodialysis monitoring system, 403*
DTPA, obstructive uropathy, 444*
EDTA, percutaneous biopsy effect on kidney image, 470*
$Fe(OH)_3$, lung scan, relation to position, 403*
$Fe(OH)_3$, pulmonary blood flow in mitral valve disease, 345*
$Fe(OH)_3$, regional pulmonary blood flow, in dogs, 241
$Fe(OH)_3$ retention, in animals, 580, 581
^{59}Fe-$Fe(OH)_3$ retention, in mice, 5
HSA aerosol, compared with ^{133}Xe gas, ventilation studies, 440*
HSA aerosol for lung, preparation, 138
HSA aerosol, pulmonary embolism, 606
intracranial aneurysm, 88
liver and spleen, blood flow in Wilson's disease, 410*
liver lesion evaluation, 410*
placental and uterine blood flow, 336*
S-colloid, PVP stabilized, 212
Sn hydroxide, preparation, liver and lungs, in rats, 467*
transferrin complex, placental imaging, 825

Indium-114m
citrate, tumor uptake, in mice, 471*
ferric hydroxide retention, in animals, 580

Insulin
and ^{40}K depletion in cirrhosis, 386*
^{127}I-labeled, neutron activation analysis, 422*

Iodine
severe patient reaction following ^{131}I-MAA lung scan, 90
thyroid content, fluorescence scanning, 366*

Iodine-123
accelerator production ^{123}Xe, (parent), 417*
albumin, recoil labeling, 448*
cyclotron production, gas-flow target, 395*
Hippuran, on-site production, 459*
Hippuran, renograms, 405*
thyroid kinetics, multiple I isotopes, 335*

Iodine-125
antibody to chorionic gonadotrophin, choriocarcinoma scanning, in hamsters, 69
antipyrine, separation of unbound iodide, 149
chloroquine, liver lesion evaluation, 410*
chloroquine, ocular melanoma diagnosis, 601, 771
cholesterol, adrenal scans, in dogs, 176

HSA, blood pool, in animals, 367*
HSA, plasma volume in dog lung, 241
iodoantipyrine, cerebral edema in stroke, multiple tracers, in rats, 382*
iodopropamide distribution, in dogs, 117
iothalamate, GFR, correlated with ^{99m}Tc DTPA and ^{131}I hippuran renograms, 470*
oil red O, lipid binding, in animals, 245
personnel contamination, 523
thyroid, compared with $^{99m}TcO_4^-$, in rats, 409*
thyroid kinetics, multiple I isotopes, 335*
thyroid therapy, 393*
thyroid uptake, compared with ^{131}I, 8
thyroid uptake, low dose, 392*
total-body hematocrit in blood-compartment measurement, 17
transmission imaging for bone-mineral content, 351*
transmission method, cortical bone thickness, in vitro, 455*
TSH, radioimmunoassay of thyrotropin, 424*

Iodine-128
neutron activation analysis of ^{127}I-insulin, 422*

Iodine-130
thyroid kinetics, multiple I isotopes, 335*

Iodine-131
and propanolol, hyperthyroidism, 433*
antipyrine, regional lung water distribution, in dogs, 463*
BSP, constitutional hyperbilirubinemia, 95, 578
BSP, liver clearance, Dubin-Johnson syndrome, 768
chloroquine analog, melanoma therapy, in dogs, 153
fibrinogen, renal transplant rejection, 407*
iodoacetic acid, preparation and distribution, in animals, 421*
personnel contamination, 523
pyrazole, myocardium uptake, in animals, 404*
rose bengal, hepatic artery aneurysm, 761
rose bengal, liver lesion evaluation, 410*
rose bengal, multiphasic jaundice workup, 356*
thyroid imaging, compared with $^{99m}TcO_4^-$, 673
thyroid kinetics, multiple I isotopes, 335*
thyroid, Marine-Lenhart syndrome, 346*
thyroid scan, compared with $^{99m}TcO_4^-$, 136
thyroid scan, interference with $^{99m}TcO_4^-$, 650, 651
thyroid therapy, 456*
thyroid therapy, atropine blocking dose, in mice, 482*
thyroid therapy followed by thyroid crisis, 262
thyroid therapy, hyperthyroidism, 610
thyroid therapy, scan to aid analysis, 804
thyroid therapy, whole-body counting for retention, 479*
thyroid uptake, compared with ^{125}I, 8
thyroid uptake, compared with $^{99m}TcO_4^-$, 344*
thyroid uptake, depth correction, 427*
thyroid uptake, dietary I in bread, 743
thyroid uptake in infectious hepatitis, 828
thyroid uptake, multinodular goiter, 436*
tracer dose effect on serum PBI and T_4, 637

Iodine-131, albumin
and ^{99m}Tc-albumin aggregates, catabolic pathways, in dogs, 372*
cerebral edema in stroke, multiple tracers, in rats, 382*
cisternography, 348*
cisternography, cerebrovascular occlusion, 435*
cisternography in hydrocephalus, 462*
cisternography, kinetics, in dogs, 396*
cisternography, previous lumbar puncture and PEG, 555
cisternography, subarachnoid hemorrhage, 61
hepatic artery aneurysm, 761
MAA, cardiac postoperative followup, 445*
MAA, effect on myocardium and blood flow, in dogs, 724
MAA, liver lesion evaluation, 410*
MAA, pulmonary blood flow, 481*
MAA, pulmonary blood flow, streamlining effect, 438*
MAA, pulmonary embolism, scan and angiogram, 732
MAA, serial lung scan in radiation therapy, 800
MAA, severe patient reaction, 90
MAA, ventilation-perfusion, clinical correlation, 393*
quantitative cerebral spinal fluid dynamics, 390*
renography, computer assisted, 392*
subdural hematoma in cisternography, 758
tumor localization, in animals, 355*

Iodine-131, Hippuran
absorbed-dose calculations, 841, 842
compared with ^{99m}Tc-DTPA and ^{125}I-iothalamate, kidney function, 470*
computer-aided renogram analysis, 360*
computer-assisted renography, 392*
hemodialysis candidacy, 439*
kidney transplant rejection symptoms caused by ureteral kinking, 43
percutaneous biopsy effect on kidney image, 470*
regional cerebral blood flow, 532
renal transplant function, 437*
variable clearance, in mice, 445*

Iodine-132
thyroid kinetics, multiple I isotopes, 335*
thyroid suppressibility, compared with $^{99m}TcO_4^-$, 51

Iron
binding capacity of serum, 489
total body in normals, 387*

Iron-52
spleen and marrow, quantitative uptake, 382*

Iron-58
in pregnancy, 353*

Iron-59
absorption in hemochromatosis, phlebotomy therapy effect, 660
Fe-binding capacity of serum, 489
$Fe(OH)_3$ retention, 580, 581
$Fe(OH)_3$ retention, in animals, 349*
ferrous citrate, postirradiation bone marrow redistribution, 425*
^{111}In and ^{114m}In tumor uptake, in mice, 471*
^{113m}In-^{59}Fe-$Fe(OH)_3$ retention, in mice, 5
plasma content, liquid scintillation counting, 270
quantitative measurement, in vivo, 396*
RBC, cerebral edema in stroke, multiple tracers, in rats, 382*
total-body iron in normals, 387*
transferrin, liver deposition of iron, in hemochromatosis, 28

Kidney
blood flow, ^{133}Xe, 443*
^{47}Ca metabolism in dialyzed uremic patients, 334*
clearance of ^{113m}In-, ^{99m}Tc- and ^{169}Yb-DTPA, in animals, 364*
cortex localization of ^{51}Cr- and ^{99m}T-caseidin, in animals, 678
detailed structure, ^{99m}Tc-Fe ascorbic acid, pinhole camera, 418*
hemodialysis monitoring, ^{99m}Tc-, ^{113m}In- and ^{169}Yb-DTPA, 403*
^{131}I-Hippuran, variable clearance, in mice, 445*
$^{13}NH_3$, imaging, 368*
percutaneous biopsy effect on kidney image, 470*
position, effect on scan, 579
renal columns on scans, ^{197}Hg- and ^{99m}Tc-DTPA, 421*
^{99m}Tc-DTPA, glomerular filtration rate, 338*
^{99m}Tc-Fe ascorbate complex, imaging, 339*
^{99m}Tc-Fe-ascorbic acid as scanning agent, 171
^{99m}Tc-gelatin, in animals, 376*
^{99m}Tc-labeled compounds (eight), in animals, 399*
^{99m}Tc-penicillamine acetazolamide complex, preparation, 361*
tomography compared with camera imaging, 101
transplant rejection detection, ^{131}I-fibrinogen, 407*
transplant rejection symptoms caused by ureteral kinking, 43

^{169}Yb-, ^{113m}In- and ^{99m}Tc-DTPA, obstructive uropathy, 444*

Kidney, glomerular filtration rate
see Glomerular filtration rate

Kidney, renography
computer-aided analysis, 360*
computer-assisted, 392*
hemodialysis candidacy, 439*
^{123}I-Hippuran, 405*
^{123}I-Hippuran, on-site production, 459*
^{99m}Tc-DTPA, ^{131}I-Hippuran, correlation with ^{125}I-iodothalamate GFR, 470*
transplants, function, ^{131}I-Hippuran and ^{99m}Tc-DTPA, 437*

Kit
blood plasma volume, evaluation, 483*
comparison T_3 kits, 474*, 481*
^{123}I-Hippuran, 459*
separation ^{18}F from reactor products, 463*
^{99m}Tc-albumin, closed-system electrolysis, 562
^{99m}Tc-DTPA and ^{99m}Tc-HSA, 430*
^{99m}Tc-DTPA, differences between two kits, 699
^{99m}Tc-HSA, 707
^{99m}Tc-HSA microspheres for lung, clinical evaluation, 127

Krypton-85
blood-flow velocity in hemorrhage, in dogs, 391*

Leg
see Extremities

Liquid scintillation counting
^{59}Fe in plasma, 270
^{32}P specific activity, Cerenkov counting, 14
quench analysis of isotopes, 552

Liver
allograft, ^{198}Au-colloid for immunosuppression, in dogs, 138
amebic abscess, scan, 192
^{198}Au scan in schistosomiasis japonica, 655
blood flow and function, Wilson's disease, 410*
blood flow by phagocytic activity measurement, 711
decreased ^{40}K, growth hormone and insulin in cirrhosis, 386*
^{18}F-6-fluorotryptophan, distribution, in mice, 367*
hepatic artery aneurysm, ^{99m}Tc-S colloid, ^{131}I-HSA, 761
homografts, kinetics of rejection, in dogs, 393*
^{131}I- and ^{99m}Tc-albumin aggregates, catabolic pathways, in dogs, 372*
^{131}I-BSP clearance, Dubin-Johnson syndrome, 768
^{131}I-BSP, constitutional hyperbilirubinemia, 95, 578
inspiration-expiration views, 453*
iron deposition in hemochromatosis, 28
^{42}K scan, in dogs, 464*
lesion evaluation, multiple radiopharmaceuticals, 410*
metastatic extraosseous osteosarcoma, 754
multiphasic jaundice workup, 356*
$^{13}NH_3$ image, 368*
optical spatial filtering of scan, 85
pancreas imaging, dual-isotope subtraction method, 493
phagocytosis in In-hydroxide toxicity, in mice, 431*
physiologic degradation reduction in scanning, 119
portal streamlining, ^{198}Au and ^{99m}Tc-MAA, 357*
posterior scans, 576
PVP stabilized colloid, 212
radiation therapy of hemangioma, 835
respiratory artifact reduction, computer-camera, 625
scan and alkaline phosphatase, in metastases, 414*
scan, false positives from adjacent disease, 415*
scan, minified, ^{99m}Tc-S colloid, 480*
scan, ^{99m}Tc in GI tract, 697
scans and images compared with alkaline phosphatase and BSP tests, 227
^{75}Se-selenomethionine, effect of carrier, in mice, 413*
^{75}Se-selenomethionine, focal lesion metabolism, 441*
^{75}Se-selenomethionine, kinetic studies, 365*
size, portal vein obstruction, 411*
^{87m}Sr, sequential imaging, lung and bone, in dogs, 423*, 424*
subdiaphragmatic abscess, 144
^{99m}Tc-albumin microaggregates, biliary excretion, 373*
^{99m}Tc- and ^{113m}In-Sn hydroxide, preparation, distribution in rats, 467*
^{99m}Tc-HSA microspheres, preparation, distribution, in animals, 462*
^{99m}Tc-S colloid scan, uptake of $^{99m}TcO_4^-$ by gastric mucosa, 271
^{99m}Tc-S colloid uptake, effect of vascular lesions, 397*
^{99m}Tc-S colloid, uptake relative to spleen, 237
thyroid uptake in infectious hepatitis, 828
tomography compared with camera imaging, ^{99m}Tc-S colloid, 101

Lung
aerosols of submicronic particle size, 385*
blood flow, ^{131}I-MAA, camera, 481*
blood flow, streamlining effect, ^{133}Xe, ^{131}I-MAA, 438*
book report: use and interpretation of the lung scan, 838
computer representation of regional organ function variation, 379*
distribution of regional lung water, in dog, 463*
Fe-hydroxides, retention in animals, 349*
$Fe(OH)_3$ retention, 580, 581
fissure sign, 326, 434*
fissure sign analysis, 822
free fluid and cardiac position in scan, 2
hemodynamic alterations in perfusion defect, 166
histamine, local effect, in dogs, 420*
inhalation imaging, ^{113m}In, 765
^{113m}In-colloid, inhalation imaging, in normals, 467*
^{113m}In-HSA aerosol, preparation, 138
^{13}N inhalation, airway closure, regional ventilation, 719
^{15}O, ^{15}N, ^{11}CO and $^{11}CO_2$, cyclotron production for inhalation, in dogs, 468*
pulmonary blood flow in mitral valve disease, 345*
regional blood flow, blood volume and hematocrit, in dogs, 241
scan and angiogram in embolism, 732
scan image relation to position, 403*
serial scanning in radiation therapy, 800
severe reaction following ^{131}I-MAA scan, 90
^{87m}Sr-phosphate imaging, in dogs, 347*
^{87m}Sr-phosphate, sequential imaging, liver and bone, in dogs, 423*
subdiaphragmatic abscess, 144
^{99m}Tc- and ^{113m}In-HSA aerosols in pulmonary embolism, 606
^{99m}Tc- and ^{113m}In-Sn hydroxide, preparation, distribution in rats, 467*
^{99m}Tc-Fe hydroxide, macroaggregated, 475*
^{99m}Tc-Fe hydroxide, preparation, biologic half-time, 477*
^{99m}Tc-HSA microspheres, evaluation, 343*
^{99m}Tc-HSA microspheres, kit, clinical evaluation, 127
^{99m}Tc-HSA microspheres, preparation, 426*
^{99m}Tc-HSA microspheres, spheroidized, 469* 474*
^{99m}Tc-MAA and ^{99m}Tc albumin microspheres, normal scans, 401*
^{99m}Tc-S macroaggregates, preparation, 475*
^{99m}Tc-S macroaggregates, preparation and scans, 432*
^{99m}Tc-Sn-M AA, preparation, distribution in rats, 377*
tomography compared with camera imaging, ^{99m}Tc-$Fe(OH)_3$, 101
trace elements, 371*
ventilation, comparison ^{133}Xe gas and ^{99m}Tc- and ^{113m}In-albumin aerosols, 440*
ventilation-perfusion, clinical correlation, 393*
ventilation-perfusion studies in pulmonary artery occlusion, in dogs, 370*
ventilation-perfusion, ^{133}Xe, 586
^{133}Xe, automatic quantitation of regional function, 422*
^{133}Xe, problems of lung studies, 369*
^{133}Xe, pulmonary artery pressure, 415*

^{133}Xe, ventilation-perfusion, 472*
^{133}Xe ventilator, 477*
Lutetium-177
chelates, bone marrow, in animals, 400*
Lymph
^{198}Au lymphangiography in infant, 315
^{18}F bone studies in lymphoma, 340*
^{67}Ga-citrate, in Hodgkin's disease, 385*
nodes, ^{67}Ga-citrate, 431*
sarcoma, irradiated, ^{111}In- and ^{67}Ga chlorides, in rats, 464*
selective ablation, ^{109}Pd-porphyrin complexes, in animals, 231
^{99m}Tc-S colloid lymphangiography, 382*
^{90}Y-microspheres, splenic irradiation in Hodgkin's disease, 412*
Macroaggregated albumin
see Iodine-131, albumin; Technetium-99m, albumin
Mercury-197
DTPA, renal columns on scans, 421*
mercurihydroxy-propane, spleen mass, 460*
pulse-height selection and lesion detection, 690
Mercury-203
hydroxy-Hg-fluorescein, myocardial infarct, in dogs, 641
Mercury-203, chlormerodrin
kidney tomography, 101
Microaggregated albumin
see Technetium-99m, albumin
Microspheres
albumin, blood pressure response to high dose, in dogs, 251
albumin, effect on blood flow, in dogs, 458*
albumin, Fe free, ^{113m}In labeling, 616
albumin, low probability of allergic reaction, 649
albumin, ^{99m}Tc- and ^{113m}In,- preparation, distribution in animals, 462*
albumin, ^{99m}Tc-, evaluation for lungs, 343*
albumin, ^{99m}Tc-, heart scan, in dogs, 447*
albumin, ^{99m}Tc-, in vitro destruction by leukocytes, 449*
albumin, ^{99m}Tc-, kit, lung, clinical evaluation, 127
albumin, ^{99m}Tc-, preparation, 426*
albumin, ^{99m}Tc-, spheroidized, 474*
plastic, effect on heart blood flow and myocardium, in dogs, 724
^{85}Sr-, bone uptake kinetics, in animals, 367*
Molybdenum-99
calibration, radionuclide contamination, 141
Muscle
^{131}I-pyrazole uptake, in animals, 404*
Myocardium
see Heart
Neohydrin
see Mercury-197, chlormerodrin, Mercury-203, chlormerodrin
Neon
^{19}F production by deuteron bombardment, 362*
Neutron activation analysis
Au excretion in arthritis, 359*
Ca in biological samples, 472*
Ca, whole body, in metabolic bone disease, 345*
^{51}Cr-RBC survival, in dogs, 398*
^{51}Cr-RBC survival, in monkeys, 31
^{58}Fe in pregnancy, 353*
^{127}I-insulin, 422*
intracranial bleeding in newborns, 353*
in vivo, total-body Ca, Na, Cl, N and P, 499
Na and K in tissue, ^{252}Cf probe, 335*
Na, whole-body, in normals, 390*
whole-body, C, O, N, in mice, 808
Nickel-63
quench analysis, 552
Nitrogen
whole-body, in vivo neutron activation analysis, 499
whole-body, neutron activation analysis, in mice, 808
Nitrogen-13
ammonia, body levels, in animals, 404*
ammonia, dynamic studies, 368*
gas, cyclotron production, 468*
inhalation, airway closure and regional ventilation, 719
Nuclear Pioneer Lecturer
Charles L. Dunham, 1971, 332
Nuclear reactor
production ^{43}K, 457*
Observer
detection of lesions with image processing, 381*
limitation, 373*
pulse-height selection and lesion detection, 690
Oxygen
whole-body, neutron activation analysis, in mice, 808
Oxygen-15
gas, cyclotron production, 468*
H_2O and ^{133}Xe, cerebral blood flow, 431*
Palladium-109
porphyrin complexes, selective lymphatic ablation, in animals, 231
Pancreas
^{14}C-dopamine, in hamsters, 452*
^{18}F-6-fluorotryptophan, in mice, 367*
^{125}I-iodopropamide distribution, in dogs, 117
imaging, dual isotope subtraction method, 493
^{75}Se-selenomethionine, administration route, in rats, 566
^{75}Se-selenomethionine, effect of carrier, in mice, 413*
^{75}Se-selenomethionine, injection technique effect on uptake, in dogs, 35
^{75}Se-selenomethionine kinetic studies, 365*
tomography compared with camera imaging, 101
Parathyroids
hyper-, $^{99m}TcO_4^-$ uptake in skull, 763
imaging, ^{75}Se-selenomethionine and glucagon, 751
Parotid gland
$^{99m}TcO_4^-$ in neurofibroma, 646
Pediatrics
brain scanning, 368*
cardiac shunt, ^{99m}Tc-MAA injection, 746
intracranial bleeding in newborns, 353*
left-to-right cardiac shunt detection, 334*
lymphangiography, ^{198}Au, 315
spleen size and growth, ^{99m}Tc-S colloid, 466*
$^{99m}TcO_4^-$ angiocardiograms, in infants, 406*
$^{99m}TcO_4^-$, congenital heart disease, 374*
$^{99m}TcO_4^-$, dynamic thyroid studies, 337*
$^{99m}TcO_4^-$ in milk of nursing mother, 188
Phantom
cardiac output, ^{113m}In, ^{99m}Tc, 591
myocardial infarction, 436*
Phenylalanine
^{18}F-labeled, in animals, 280
Phosphorous
whole-body, in vivo neutron activation analysis, 499
Phosphorus-32
DFP- and ^{75}C-labeled granulocytes, 774
specific activity, Cerenkov counting, 14
Physician
components of professional competence, 840
Placenta
blood flow, ^{113m}In, 336*
^{14}C-thiouracil in fetus, in animals, 388*
imaging, ^{99m}Tc-HSA and ^{113m}In-transferrin complex, 825
in vitro oxidation of ^{14}C-phenylalanine, ^{14}C-leucine and ^{14}C-glucose, 468*
$^{99m}TcO_4^-$ transfer from mother to fetus, 375*
ultrasonic localization, 453*
Plasma
see Blood plasma
Potassium
in tissue, neutron activation analysis with ^{252}Cf probe, 335*
myocardial infarct, ^{131}Cs, in dogs, 386*

Potassium-40
depletion in cirrhosis, 386*
electrolyte-hydration imbalance in obesity, 469*
Potassium-42
electrolyte imbalance in obesity, 469*
exchangeable K in hyponatremia, 432*
myocardial scanning, bolus infusion technique, in dogs, 394*
Potassium-43
chloride, heart imaging, 516
myocardial blood flow, in dogs, 440*
myocardial perfusion and viability, in dogs, 366*
myocardial scanning, bolus infusion technique, in dogs, 394*
reactor production, properties, 457
scatter in heart and liver scans, in dogs, 464*
Propanolol
and ^{131}I, hyperthyroidism, 433*
Pulmonary function
see Lungs
Quality control
adverse reactions to radiopharmaceuticals, 413*
purity check for ^{99m}Tc-S colloid from "kit," 513
program for nuclear medicine, 363*
^{133}Xe gas reaction with storage vessel, 249
Radiation damage
bone marrow, effect of total-body irradiation, 359*
chromosome analysis, 448*
postirradiation cortisol metabolism, in dogs, 435*
radiation therapy, thyroid cancer and nodules, 451*
^{90}Y-microspheres, splenic irradiation, 412*
Radiation dose
exposure rate at syringe surface, 574, 575
health physics and "new" radiopharmaceuticals, 420
neutron effect on eyes, 343*
Radiation dosimetry
see Dosimetry
Radiation therapy
bone marrow redistribution pattern, Hodgkin's, 425*
irradiated lymphosarcoma, ^{111}In- and ^{67}Ga-chloride uptake, in rats, 464*
liver hemangioma, 835
thyroid, cancer and nodules, 451*
usefulness of serial lung scan, 800
Radiocardiogram
see Heart
Radiopharmaceuticals
chemical state ^{99m}Tc, 596
purity check, ^{99m}Tc-S colloid from "kit," 513
survey of adverse reactions, 413*
^{133}Xe gas reaction with storage vessel, 249
Radiopharmacy
inter-institutional services, 464*
interhospital, 358*
Record system
computer, 456*
inter-institutional services, 464*
optical scan method, 387*
Polaroid scan reproductions, 272
Red blood cell
^{14}C-formate catabolism in folic acid-deficient rats, 222
^{50}Cr-labeled, survival, neutron activation analysis, in dogs, 398*
^{50}Cr-labeled, survival, neutron activation analysis, in monkeys, 31
^{51}Cr-labeled, survival, effect of mannitol, 478*
^{51}Cr-labeled, survival in normals, 302
^{99m}Tc-labeled, Al as agglutinating agent, 297
^{99m}Tc-labeled, $SnCl_2$ as reducing aid, 577
^{99m}Tc labeled, spleen imaging, 310, 354*
^{99m}Tc labeled, in animals, 22
^{99m}Tc labeling, 183, 323, 324
total-body hematocrit in blood-compartment measurement, 17
Renal, renography
see Kidney, renography
Research
character and emphasis in nuclear medicine, 319
Resolution
anatomic, $^{99m}TcO_4^-$, heart, 371*
comparison of five linear digital filters, 371*
digital filter, Fourier transform technique, 443*
gamma-ray scatter, effect of detection parameters, 352*
measurement of scan and image quality, 526
scanner, optical density fluctuation, 461*
Reticuloendothelial system
see specific organs
Rubidium-86
chloride, blood flow in tumor, in mice, 465*
myocardial perfusion and viability with ^{43}K, in dogs, 366*
Salivary glands
atropine blocking dose in ^{131}I therapy, in mice, 482*
$^{99m}TcO_4^-$ clearing by lemon, 770
Samarium-153
chelates, bone marrow, in animals, 400*
Scandium
effect on ^{67}Ga tumor uptake, in animals, 437*
Scanner
compared with scintillation cameras and autofluoroscope, ^{18}F and ^{85}Sr, 415*
computer processing of scans, 287, 434*
digital ratemeter system, 320, 321
^{43}K scatter, heart and liver, in dogs, 464*
lithium-drifted germanium detector, 25
optical density fluctuations, 461*
optical spatial filtering of scan, 85, 342*
pulse-height selection and lesion detection, 690
quantitative phantom measurement, ^{131}I and ^{85}Sr, 426*
reduction of physiologic degradation in liver scans, 119
thyroid phantom, ^{131}I, matrix inversion method, 416*
unidirectional, brain, 768, 769
whole-body, comparison ^{18}F and ^{157}Dy-HEDTA for bone, 815
Scanning
dot counting, 269
fluorescence, thyroid, 366*
measurement of image quality, 526
minification, 639
observer detection of lesions with image processing, 381*
Selenium-75, selenomethionine
blood flow in tumor, in mice, 465*
carrier effect on distribution, in mice, 413*
distribution, effect of administration route, in rats, 566
injection technique effect on distribution, in dogs, 35
kinetic studies of pancreas, liver and intestine, 365*
liver, focal lesion metabolism, 441*
liver lesion evaluation, 410*
mediastinum scanning, 644
pancreas imaging, dual-isotope subtraction method, 493
pancreas tomography, 101
parathyroid imaging, with glucagon, 751
tumor localization, in animals, 355*
Selenium-76
cyclotron production ^{77}Kr, parent of ^{77}Br, 416*
Sodium
in tissue, neutron activation analysis with ^{252}Cf probe, 335
whole-body, in vivo neutron activation analysis, 390*, 499
Sodium-22
exchangeable Na in hyponatremia, 432*
personnel contamination, 523
Sodium-24
electrolyte imbalance in obesity, 469*
Spleen
blood flow and function in Wilson's disease, 410*
estimation of mass, 460*

imaging with ^{99m}Tc-RBC, 310
PVP stabilized colloid, 212
quantitative uptake, 382*
size and growth, ^{99m}Tc-S colloid, 466*
size, normal adult scan, 123
size, portal vein obstruction, 411*
size, rapid changes, 397*
splenosis, ^{99m}-S colloid image, 570
^{99m}Tc-HSA microspheres, preparation, distribution, in dogs, 462*
^{99m}Tc in GI tract in liver scan, 697
^{99m}Tc-RBC, 354*
^{99m}Tc-S colloid, effect of vascular lesions, 397*
^{99m}Tc-S colloid scan, uptake of $^{99m}TcO_4^-$ by gastric mucosa, 271
^{99m}Tc-S colloid, uptake relative to liver, 237
^{90}Y microsphere irradiation, 412*

Sterilization
by filtration, 140

Strontium-85
bone scan and electromyograph, 430*
bone scan minification, 639
chloride, and ^{157}Dy-HEDTA, bone imaging, in rabbits, 558
comparison of scintillation cameras, autofluoroscope, scanner, 415*
extraosseous osteosarcoma metastatic to liver, 754
microspheres, heart blood flow, in animals, 367*
phosphate effect on serum Sr, in rats, 346*
uptake by osteosarcoma metastatic to lung, 131

Strontium-87m
bone, optimal scanning time, 142, 143
concentration in extraosseous tumors, 265
metastatic osteosarcoma, 767
phosphate effect on serum Sr, in rats, 346*
phosphate, lung image in dogs, 347*
sequential liver and bone scans, in dogs, 424*
sequential liver, lung and bone scans, in dogs, 423*

Sulfur-35
quench analysis, 552

Sulfur colloid
see Technetium-99m, sulfur colloid

T_3
free thyroxine index, 476*
kit comparison, 474*, 481*
resin strip technique evaluation, 55
thyroxine binding globulin capacity, 383*

Technetium-99m
Al in eluant, 476*
camera spatial distortions, 397*
caseidin, kidney cortex localization, in animals, 678
chelate, cisternography, kinetics, in dogs, 396*
chemical analyses of labeled compounds, 354*
chemical state ^{99m}Tc in biomedical products, 596
"clock" for dose calculation, 742
colloid, spleen mass, 460*
comparison of four scintillation cameras, 383*
cyclotron production, 739
-DTPA, chemical state ^{99m}Tc, 596
-DTPA, difference between "kit" preparations, 699
-EDTA, chemical state ^{99m}Tc, 596
electrolytic syntheses, 340*
-Fe-ascorbate complex, chemical state ^{99m}Tc, 596
-Fe-ascorbic acid complex, as renal agent, 171
-Fe-ascorbic acid complex, detailed kidney structure, pinhole camera, 418*
-Fe ascorbic acid complex, kidney, 339*
-Fe hydroxide, production, 632
-ferrous hydroxide, preparation, 629
-fibrinogen macroaggregates, thrombophlebitis, in dogs, 471*
gelatin, kidney, in animals, 376*
inulin, cisternography, kinetics, in dogs, 396*
lithium-drifted germanium detector in scanning, 25
-meglumine diatriazote, -mannitol, -Na diatriazote, -n-methylglucamine, -meglumine, -sorbital, -inulin and -β-glycerylphosphate, kidney imaging, in animals, 399*
moving line source for transmission imaging, 698
optimizing Anger camera window, 703
-penicillamine acetazolamide complex, preparation and kidney scans, 361*
personnel contamination, 523
-polyphosphate PP46, bone, in animals, 399*
pulse-height selection and lesion detection, 690
quantitative measurement, in vivo, 396*
-RBC, agglutination by Al^{3+} in eluate, 297, 378*
-RBC, in animals, 22
-RBC, preparation, 183, 323, 324
-RBC, $SnCl_2$ reducing aid, 577
-RBC, spleen imaging, 310, 354*
-$Sn(OH)_2$ aggregates, thrombophlebitis, in dogs, 471*
-Sn-hydroxide, preparation, liver and lungs, in rats, 467*
-Sn colloid, preparation, 377*
transmission-emission imaging, 481*

Technetium-99m, albumin
aerosol and -MAA, pulmonary embolism, 606
aerosol and -MAA, ventilation-perfusion in pulmonary artery occlusion in dogs, 379*
aerosol, compared with ^{133}Xe, ventilation studies, 440*
and ^{131}I-albumin aggregates, catabolic pathways, in dogs, 372*
blood pool, in animals, 367*
cardiac output, image-intensifier camera, in dogs, 112
cisternography, kinetics, in dogs, 396*
cisternography, previous lumbar puncture and PEG, 555
intracardiac shunts, with ^{133}Xe, 341*
"kit," 430*
MAA and microspheres, lung scan, in normals, 401*
MAA, blood flow in normal legs, 458*
-MAA, cardiac shunting, injection technique, 746
MAA, portal streamlining ^{198}Au, 357*
-MAA, pulmonary embolism, scan and angiogram, 732
MAA, thrombophlebitis, in dogs, 471*
MAA, ventilation-perfusion, clinical correlation, 393*
microaggregates, biliary excretion, 373*
microspheres, cardiac scan, in dogs, 447*
microspheres, destruction by leukocytes, in vitro, 449*
microspheres, effect on blood flow, in dogs, 458*
microspheres, evaluation for lung, 343*
microspheres, lung, kit, clinical evaluation, 127
microspheres, preparation, 426*
microspheres, preparation, distribution, in animals, 462*
microspheres, spheroidized, 469*, 474*
microspheres, thrombophlebitis in dogs, 471*
placental imaging, 825
preparation, electrolytic, closed system, 360*, 562
preparation, Fe^{2+} and Sn^{2+} reducing agents, 204, 378*
preparation, semiautomated, 325
regional lung water distribution, in dogs, 463*
Sn-MAA, preparation, distribution in rats, 377*
suspension, effect on myocardium and blood flow, in dogs, 724
three preparations, 707
ventricular aneurysm, 369*

Technetium-99m, DTPA
compared with ^{131}I-Hippuran and ^{125}I-iothalamate, kidney, 470*
compared with ^{113m}In- and ^{169}Yb-DTPA in brain, in animals, 364*
glomerular filtration rate, 338*
hemodialysis monitoring system, 403*
kit, 430*
obstructive uropathy, 444*
percutaneous biopsy effect on kidney image, 470*
renal columns on scans, 421*
renal transplant function, 437*

Technetium-99m, iron hydroxide
lung, clinical experience, 475*

lung, preparation, biologic half-time, 477*
lung scan, relation to position, 403*
lung tomography, 101
myocardial perfusion, normal, in dogs, 419*
pulmonary blood flow in mitral valve disease, 345*
retention, in animals, 349*

Technetium-99m, pertechnetate
angiocardiogram, in infants, 406*
angiography, computer aided, 448*
angiography, subdural hematoma, 414*
binding by human serum and tissues, 365*
blood flow, carotid artery, compared with ultrasonics, 479*
brain, clearing salivary glands, 770
brain, dynamic imaging, 442*
brain, effect of corticosteroids, 451*
brain, optimum scanning time, 389*
brain tomography, 101
cardiac output, in dogs, 591
carotid blood flow, 520
cerebral blood flow, compared with ^{133}Xe, 338*
cerebral blood flow, improved visualization, 428*
cerebral blood flow, regional, 532, 540
cerebral edema in stroke, multiple tracers, in rats, 382*
cerebral infarction, 47
cerebral infarction "watershed" distribution, 756
cisternography, kinetics, in dogs, 396*
ClO_4^- blocking by simultaneous injection, in dogs, 362*
ClO_4^- effect on choroid plexus uptake, 312
dynamics, subdural hematoma, 336*
heart, anatomic resolution, 371*
heart, congenital disease, 374*
heart, intracardiac shunts, 370*
^{131}I interference in thyroid scan, 650, 651
in milk of nursing mother, 188
KI block of choroid plexus in brain scans, 98
kidney transplant rejection symptoms caused by ureteral kinking, 43
methyl-ethyl-ketone extraction, 459*
neurofibroma in parotid scan, 646
peripheral anteriography, 429*
posterior fossa tumors, 458*
residual postinjection activity in syringe, 480*
thyroid, compared with ^{125}I, in rats, 409*
thyroid compared with ^{131}I, 136
thyroid, dynamic studies, 337*
thyroid imaging, compared to ^{131}I, 673
thyroid metastases visualization, 40
thyroid, rapid camera studies, 380*
thyroid suppressibility measurement, 51
thyroid uptake, 457*
thyroid uptake, compared with ^{131}I, 344*
transfer from mother to fetus, in mice, 375*
transmission-emission scanning, heart, 453*

Technetium-99m, sulfur colloid
bone marrow, 385*
bone marrow, leukemia and myeloma, 387*
bone marrow, post-irradiation redistribution, 425*
cisternography, kinetics, in dogs, 396*
effect on human platelets, 429*
hepatic artery aneurysm, 761
intracardiac shunts, with ^{133}Xe, 341*
liver and spleen, effect of vascular lesions, 397*
liver and spleen function in Wilson's disease, 410*
liver and spleen, relative uptake, 237
liver and spleen scans, $^{99m}TcO_4^-$ in gastric mucosa, 271
liver and spleen size, portal vein obstruction, 411*
liver blood flow by phagocytic activity, 711
liver, high dose, inspiration-exhalation views, 453*
liver homografts, kinetics of rejection, in dogs, 393*
liver, metastatic extraosseous osteosarcoma, 754
liver, minified scans, 480*
liver scan, $^{99m}TcO_4^-$ in GI tract, 697
liver tomography, 101
lymphangiography, 382*
macroaggregates, lung, 475*
macroaggregates, preparation, distribution, toxicity, 432*
Na_2 EDTA, preparation, distribution in animals, 64
pancreas imaging, dual isotope subtraction method, 493
purity check, 513
residual activity in syringe, 480*
rhenium heptasulfide, PVP stabilizer, 212
spleen, dimensions of normal adult scan, 123
spleen image of splenosis, 570
spleen size and growth, 466*

Therapy
chemotherapy of brain neoplasms, 292
^{125}I, thyroid, 393*
^{131}I-chloroquine analog, melanoma, in dogs, 153
^{131}I for hyperthyroidism, 610
^{131}I thyroid, 456*
^{131}I thyroid, atropine blocking dose, in mice, 482*
^{131}I thyroid, scan as aid in analysis, 804
^{131}I thyroid, with propanolol, 433*
^{131}I thyroid, whole body counting of retention, 479*
spleen irradiation, ^{90}Y microspheres, 412*

Thyroid
absorbed-dose calculations, ^{131}I-Hippuran, 841, 842
antimicrosomal antibodies, solid-phase radioimmunoassay, 356*
^{14}C-thiouracil in fetus, in animals, 388*
computer-aided disease diagnosis, 620
crisis induced by ^{131}I therapy, 262
fluorescence scanning, 366*
free thyroxine index, 476*
function, $^{99m}TcO_4^-$, 457*
hemiagenesis, 186
^{125}I and $^{99m}TcO_4^-$ comparison, in rats, 409*
^{125}I therapy, 393*
^{131}I and propanolol therapy, 433*
^{131}I scans and ultrasonics, 418*
^{131}I therapy, 456*
^{131}I therapy, atropine blocking dose, in mice, 482*
^{131}I therapy in hyperthyroidism, 610
imaging, comparison ^{131}I and $^{99m}TcO_4^-$, 673
kinetics, multiple I isotopes, 335*
Marine-Lenhart syndrome, 346*
metastases visualization with $^{99m}TcO_4^-$, 40
phantom scan, matrix inversion method, ^{131}I, 416*
radiation therapy, nodules and cancer, 451*
radioimmunoassay of thyrotropin, 424*
resin strip technique for T_3 and thyroxine, 55
scan analysis of ^{131}I therapy, 804
scan, ^{131}I interference with $^{99m}TcO_4^-$, 650, 651
serum thyroxine as function test, 412*
suppressibility, $^{99m}TcO_4^-$ compared with ^{132}I, 51
T_3 kits, comparison, 474*, 481*
$^{99m}TcO_4^-$ compared with ^{131}I, 136
$^{99m}TcO_4^-$, dynamic studies, 337*
$^{99m}TcO_4^-$, rapid studies, 380*
terminology, 318
thyroxine binding globulin capacity, 383*
tracer dose ^{131}I, effect on serum PBI and T_4, 637
uptake, comparison ^{131}I and ^{125}I, 8
uptake, comparison, ^{131}I and $^{99m}TcO_4^-$, 344*
uptake ^{131}I, dietary I in bread, 743
uptake, ^{125}I, low dose, 392*
uptake, ^{131}I, depth correction, 427*
uptake, ^{131}I, multinodular goiter, 436*
uptake, in infectious hepatitis, 828
whole-body counting for ^{131}I retention in therapy, 479*

Thyroxine
binding globulin capacity, 383*
free thyroxine index, 476*
serum, effect of tracer dose ^{131}I, 637
serum level, thyroid function test, 412*
T_4 resin strip uptake evaluation, 55

Tomography
compared with camera imaging, five organs, 101
compared with 3-D activity distribution, 347*
comparison, camera and scanner, 450*
scintillation camera, 433*
Toxicity
albumin microspheres, effect on blood flow, in dogs, 458*
albumin microspheres, low probability of allergic reaction, 649
^{135}Ba, in mice, 467*
blood pressure response to high dose albumin microspheres, in dogs, 251
Fe hydroxides, retention in animals, 349*
ferric hydroxide retention, 580, 581
^{113m}In-^{59}Fe-Fe(OH)$_3$ retention, in mice, 5
In hydroxide, hepatic phagocytosis, in mice, 431*
^{99m}Tc-S colloid, effect on human platelets, 429*
^{99m}Tc-S macroaggregates, in animals, 432*
thyroid crisis induced by ^{131}I, 262
^{169}Yb-DTPA, biological fate, in dogs, 428*
Training
computer assisted, 454*
definition of nuclear medicine, 460*
inter-institutional services, 464*
nuclear medicine in medical schools, 574
observer performance compared with statistical limits, 373*
technologists' program, 461*
Transmission
emission imaging, ^{99m}Tc, 481*
emission scanning, heart, $^{99m}TcO_4^-$, 453*
imaging, bone-mineral content, 351*
imaging, moving line service, 698
Transplant
see specific organ
immunosuppression by ^{198}Au, liver allograft, in dogs, 138
Tritium
acetic anhydride, with ^{14}C-T, assay of plasma testosterone, 253
contamination in ^{18}F, test, 476*
1,2-^{3}H cortisol, metabolism, constant-infusion, in dogs, 435*
quench analysis, 552
whole-body water in hyponatremia, 432*
whole-body water, intracellular pH, 413*
Tumor
L-aspartic acid-4-^{11}C, in mice, 361*
astrocytoma diagnosis, 107
^{204}Bi, cyclotron production, 376*
brain, chemotherapy, 292
choriocarcinoma scanning, ^{125}I-antibody to chorionic gonadotrophin, in hamsters, 69
extraosseous, concentration ^{87m}Sr, 265
extraosseous osteosarcoma metastatic to liver, ^{85}Sr, 754
^{67}Ga-citrate, Hodgkin's disease, 385*
^{67}Ga-citrate in non-malignant tumors, 338*
^{67}Ga-citrate, lymphangiography, 431*
^{67}Ga Cl_3, metabolism, sarcoma cell culture, 349*
^{67}Ga, distribution in humans at autopsy, 452*
^{67}Ga, effect of scandium on uptake, in animals, 437*
^{67}Ga, intracellular deposition, in animals, 364*
^{67}Ga, normal distribution pattern, 394*
^{67}Ga scanning, 355*
^{111}In- and ^{67}Ga-chlorides, irradiated lymphosarcoma, in rats, 464*
^{111}In and ^{114m}In uptake, in mice, 471*
localization of five agents, in animals, 355*
mammary carcinoma, blood flow, in mice, 465*
melanoma, ocular, diagnosis with ^{125}I-chloroquine, 601, 771
melanoma therapy, ^{131}I-chloroquine analog, in dogs, 153
osteosarcoma, metastatic, ^{87m}Sr, 767
pancreatic adenocarcinoma, ^{11}C-dopamine, in hamsters, 452*
^{75}Se-selenomethionine, mediastinum scan, 644
^{85}Sr uptake by osteosarcoma metastatic to lung, 131
Tungsten-185
quench analysis, 552
Ultrasonics
blood flow, carotid artery, compared with $^{99m}TcO_4^-$ study, 479*
combined with ^{131}I thyroid scan, 418*
placenta localization, 453*
Urinary tract
obstruction, ^{169}Yb-, ^{113m}In- and ^{99m}Tc-DTPA, 444*
Vitamin B_{12}
absorption, ^{51}Cr and ^{58}Co, 357*
metabolism and total body content, 275
Whole body
Ca by neutron activation analysis, 345*
C, O, N, by neutron activation analysis, in mice, 808
electrolytes, imbalance in obesity, 469*
Fe in normals, 387*
hematocrit, in blood-compartment measurement, 17
imaging, ^{18}F, bone blood flow in myelofibrosis, 506
K in cirrhosis, 386*
neutron activation analysis, Na in normals, 390*
scintillation camera, 426*
water, ^{3}H, 413*
Xenon-123
accelerator production, 417*
recoil ^{123}I-iodination, 448*
Xenon-133
air contamination monitor, 145
automatic quantitation of regional lung function, 422*
cerebral blood flow, 338*, 401*, 403*
cerebral blood flow, local, in monkeys, 450*
cerebral blood flow, with $H_2{}^{15}O$, 431*
intracardiac shunts, with ^{99m}Tc, 341*
liver lesion evaluation, 410*
lung studies, special problems, 369*
personnel contamination, 523
pulmonary artery pressure, 415*
pulmonary blood flow, streamlining effect, 438*
reaction with storage vessel, 249
renal blood flow, 443*
ventilation, compared with ^{99m}Tc- and ^{113m}In- albumin aerosols, 440*
ventilation-perfusion, 472*, 586
ventilation-perfusion, clinical correlation, 393*
ventilation-perfusion, in pulmonary artery occlusion, in dogs, 370
ventilator for lung studies, 477*
Ytterbium
DTPA, cisternography, 350*
Ytterbium-169
chelate, cisternography, kinetics, in dogs, 396*
DTPA, biological fate, in dogs, 428*
-DTPA, cisternography, 683
DTPA, compared with ^{113m}In- and ^{99m}Tc-DTPA, in brain sarcoma, in animals, 364*
DTPA, hemodialysis monitoring system, 403*
DTPA, obstructive uropathy, 444*
Yttrium-90
microspheres, splenic irradiation, 412*
Zirconium-95
in eluate of ^{99}Mo-^{99m}Tc generators, 307